

Year Book
OF
THE NATIONAL ASSOCIATION OF
COTTON MANUFACTURERS

1931

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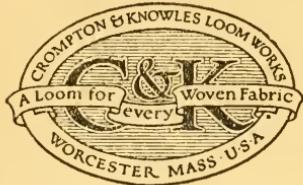
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***“We must equip
to meet new
conditions”***



The Treasurer:

“But why, Mr. Superintendent? I’ve just compared our last report with older records. And I find that our operating performance is better than it’s ever been. How can you say we’re losing money because our equipment is not up-to-date?”

The Superintendent:

“Yes, Mr. Treasurer, but you’re judging our present operating performance with the standards of 1896.

“By our old records of performance, we’re getting 92 per cent production in spinning and carding. But 1931 standards are based on long draft, coarser rovings, better spindles and larger packages. That’s what you’ll find in our competitors’ mills. And that’s why we’re getting only 68 per cent of our competitors’ production.

“Take another example, Mr. Treasurer. We’re mighty proud of our 99 per cent efficiency in our weave shed. But our looms are running at 132 picks per minute. And our competitors are getting 99 per cent efficiency with their looms running at 165 picks because of stronger and better yarn. So you see, our 99 per cent doesn’t look so good.

“That’s where we’re losing money. I’m sure of it. We suffer in competition because our operating performance is far below our competitors’.”

The Treasurer:

“H-m-m-m — you may be right. It sounds pretty logical to me. But we don’t want to load up with new equipment until we’re sure”

The Superintendent:

“Exactly, Mr. Treasurer. We’ve got to know where we are heading before we start. I suggest a survey of our present equipment and operating methods. That will show us what new equipment we need and what we can conservatively expect to save per year. I know that 25 per cent savings per year on the investment is not at all unusual. And that pays for the new equipment in four or five years. Of course, the big thing is that it puts us in a position to meet competition on an even footing. We must equip to meet new conditions.”

The Treasurer:

“Go ahead with the survey, Mr. Superintendent. We’ll put it before a board meeting when you’re ready. I think we’re on the road to a healthier income statement.”

The staff of this mill co-operated with Saco-Lowell engineers in making the survey. The suggestions for improvement were approved by the board, and new machinery has been installed.

We’ll gladly work with any mill to determine their added costs due to the operation of obsolete equipment. Write us, without the slightest obligation.

SACO-LOWELL

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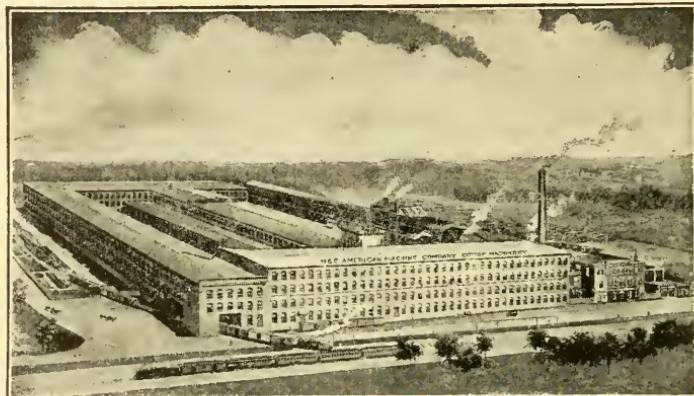
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Spinning Frames and Twisters—(Band or Tape Driven)

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Buckley Openers

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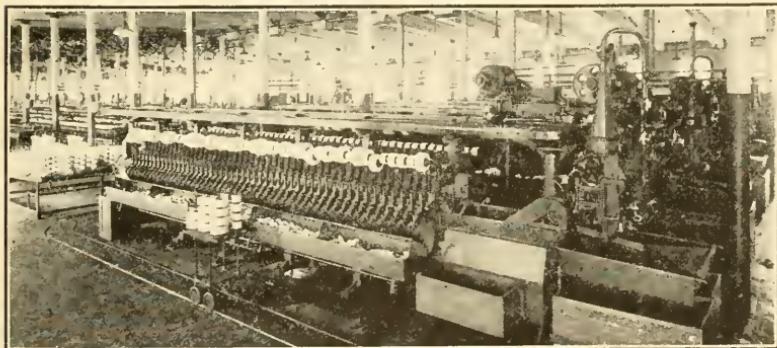
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Manufacturers of textile machinery and equipment also receive cordial coöperation from the General Electric Company in developing the electrical features of their machines. This also accrues to the benefit of the mill owner by enabling him simply to specify G-E equipment when purchasing machinery.

Throughout the textile industry today G-E motors and control, developed especially for mill machinery, are increasing production, and providing the various other advantages of electric drive. In close coöperation with mill owners, the General Electric Company has met each new problem, advising as to the utilization of complete electric equipment.

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"A TRAVELER FOR EVERY FIBRE"

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BOWEN
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 Fly —
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 for every Requirement in Weight and Style

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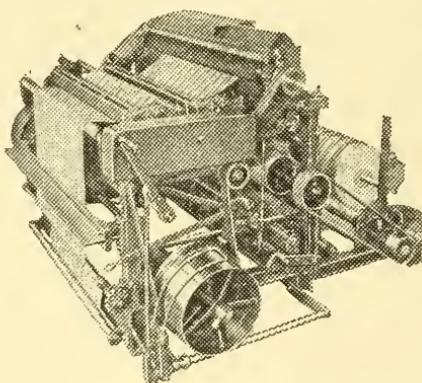
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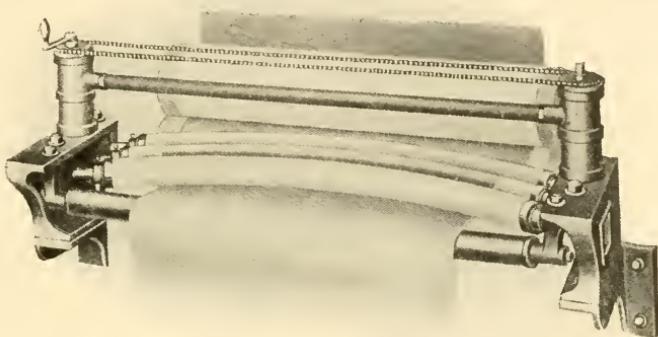
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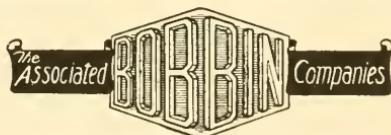


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3-BAR REGULATING RUBBER COVERED EXPANDER ATTACHED
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Year Book

of

THE NATIONAL ASSOCIATION OF
COTTON MANUFACTURERS

1931



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BOSTON

MASSACHUSETTS

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THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS

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PREFACE

THE subject matter in this edition of the Year Book is essentially that covered in the previous edition. Changes in the statistics collected make new material available each year and at the same time necessitate the elimination of tables that cannot be brought up to date.

The activity of the cotton finishing industry, and the prices of gray cloth in the Osaka market, are omitted from this edition as no figures have been collected since 1929.

Credit for source has been given in most instances, but where composite tables are used it is not always possible.

The Association is particularly indebted to the Government authorities in this country and abroad for their generous co-operation in supplying the data for many of the tables.

Any suggestions our members may have on how the book could be made of more value to them are solicited.

RUSSELL T. FISHER,
Secretary.

STATISTICAL — TECHNICAL
AND MEMBERSHIP

1931



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REVIEW OF LAST EIGHT AMERICAN COTTON CROPS

1930-31. Of the 46,078,000 acres of cotton in cultivation on July 1, 45,091,000 acres were harvested with a yield per acre of 147.7 pounds, or a total of 13,931,597 bales of 500 pounds gross. This compares with a yield of 155.0 pounds and a total crop of 14,544,584 bales for the previous year. The yield per acre is the lowest since the 1923 crop, when the yield was estimated at 130.6 pounds per acre.

The growing season was not favorable in large areas. The month of May was a little too wet over a large portion of the belt, but in June the rainfall was below normal. During July unusually hot, dry weather prevailed in most of the belt from Alabama west, amounting to severe drought in many sections, especially in Arkansas and Louisiana.

Deficient moisture was responsible for more than half the reduction in yield, being reported at 27.7 per cent, while boll weevil damage was very low, being reported at 5.0 per cent.

The quality of the 1930 crop was better than the 1929 crop, with 84.6 per cent of the crop tenderable on futures contract, compared to 75.7 per cent of the 1929 crop. Of the total tenderable, 10,485,100 bales or 76.4 per cent were $\frac{7}{8}$ inch to $1\frac{1}{32}$ inch, while 1,411,400 bales or 10.2 per cent were over $1\frac{1}{32}$ inch. The average of the crop was about middling for grade.

The estimates of the crop, both departmental and private, were consistently high, and varied more from the final yield than in the previous two seasons. The large carryover of American cotton, estimated at 5,939,000 bales, poor general business conditions, and a limited demand for cotton on the part of the mills tended to minimize any effect the variations in the predicted crop might have had on the market.

REVIEW OF 1922-1930 COTTON CROPS

The cotton crop for the year 1922-23 was the second successive small crop with a yield of 9,762,069 bales from 33,036,000 acres. Weather damage in the southwest and weevil damage in the east were held accountable for the low yield.

The next year, 1923-24, the acreage was increased to 37,123,000 but too much rain in the east and a severe drought in the western part of the belt kept the yield down to a total of 10,139,671 bales.

The 1924-25 season started unfavorably but more favorable weather later in the season plus an almost ideal picking season gave a crop of

13,627,936 bales from 41,360,000 acres. The boll weevil was not much of a factor. Bureau estimates were on a semi-monthly basis.

The hot, dry weather in 1925-26 caused the abandonment of the crop in parts of Texas but kept weevil damage at a minimum with a final crop of 16,103,679 bales from 46,053,000 acres. Large quantities of low grades were produced.

The cotton crop of 1926-27 was the largest in history with 17,977,374 bales from 47,087,000 acres. The size of the crop was badly under-estimated until the middle of October. The crop as a whole was low grade with sledge cotton an appreciable factor. Bureau estimates included a high, low and average yield.

In 1927-28, the acreage was reduced to 40,138,000 and the final yield of 12,956,043 bales was very close to the all-season prediction by the Bureau. Floods in the Mississippi valley caused much uncertainty and cut the production from that section about $1\frac{1}{2}$ million bales. The weevil damage increased over recent years and was estimated to have destroyed 18.5 per cent of the crop. Bureau estimates monthly from August to December, inclusive.

The final ginning figures for the 1928-29 season show 14,477,874 bales from 45,341,000 acres. The Bureau estimates showed little variation through the season and were consistently close. The weevil damage was estimated to have destroyed 14.1 per cent of the crop.

Two new reports were inaugurated by the Bureau during the season—the domestic consumption by grade and staple for year ending July 31, 1928, and the grade and staple of the crop as ginned.

1929-30. After a comparatively uneventful growing season, with an acreage of 48,457,000 acres yielding 155 pounds of lint to the acre, or a total of 14,544,584 bales, the market was badly upset by the stock market crash and consequent slowing up of world business. For the second successive year the Bureau estimates were consistently close to the final yield.

AMERICAN COTTON 1924-1930

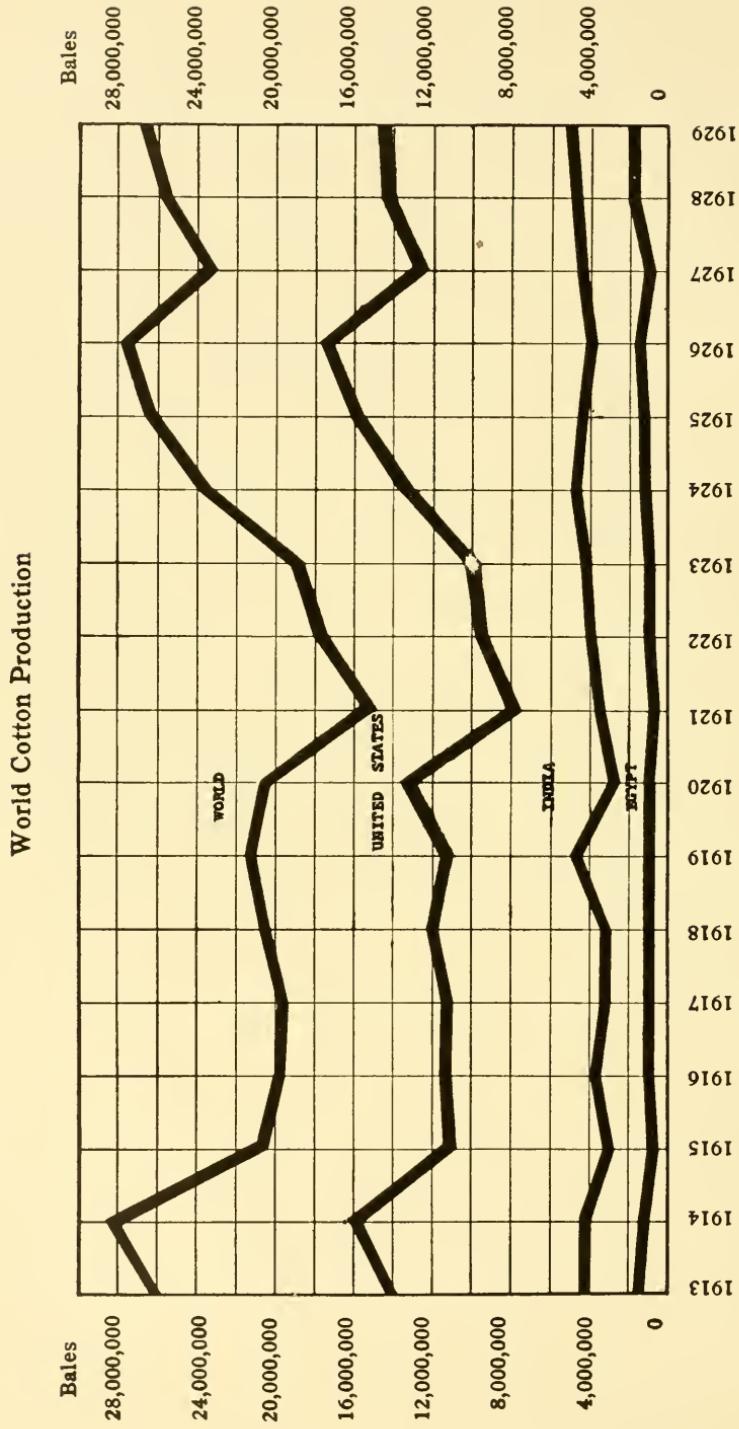
[Quantities in bales of lint cotton]

CALENDAR YEAR	Exports	Domestic Consumption	Spindles Active, Thousands ¹	Spindle-Hours Operated in Millions ¹	Per Cent of Single-shift Capacity ¹	RANGE OF SPOT COTTON PRICES	
						Low	High
1924 . . .	6,794,921	5,521,662	31,109	6,696	78.3	22.15	35.30
1925 . . .	8,498,901	6,422,748	32,621	7,841	92.7	19.15	26.05
1926 . . .	8,916,342	6,683,949	32,350	8,082	95.4	12.15	21.25
1927 . . .	9,198,746	7,405,021	32,547	8,704	104.7	12.80	23.90
1928 . . .	8,543,955	6,572,070	29,973	7,728	95.5	19.18	20.93
1929 . . .	7,417,734	7,058,574	30,405	8,323	104.8	17.00	20.80
1930 . . .	6,632,881	5,379,899	27,315	6,392	82.4	9.45	17.55
January, 1930	728,737	576,160	29,177	8,175	100.2	16.25	17.55
February, 1930	402,074	494,396	28,920	7,087	97.4	14.90	16.50
March, 1930	477,678	507,646	28,862	7,344	92.6	14.00	16.45
April, 1930	349,762	531,911	28,851	7,496	96.1	15.85	16.80
May, 1930	208,695	473,284	28,357	6,724	83.4	16.20	16.70
June, 1930	185,053	405,236	27,659	5,788	76.2	13.25	16.15
July, 1930	175,522	379,022	26,457	5,300	67.2	12.45	13.65
August, 1930	366,036	352,335	25,874	5,135	65.2	11.00	13.15
September, 1930	902,956	394,321	26,087	5,663	76.4	10.25	11.65
October, 1930	1,004,120	444,494	26,154	6,240	77.1	10.15	11.65
November, 1930	907,649	414,887	25,858	5,832	80.1	10.55	11.25
December, 1930	910,321	406,207	25,526	5,916	76.1	9.45	10.60

¹ Monthly average.

SEASON DATES

	Cotton Year	Import and Export Year	Fiscal Year
United States . . .	Aug. 1-July 31	Calendar	July 1-June 30
Egyptian . . .	Aug. 1-July 31	Calendar	May 1-Apr. 30
Brazilian . . .	Jan. 1-Dec. 31	Calendar	Jan. 1-Dec. 31
Indian . . .	Sept. 1-Aug. 31	Apr. 1-Mar. 31	Apr. 1-Mar. 31
Japanese . . .	Jan. 1-Dec. 31	Calendar	Apr. 1-Mar. 31



The above chart is based on the table on the following page.

World Production of Cotton

[In bales of 478 pounds net]

Source: United States Bureau of Census

COTTON YEAR	United States ¹	India	Russia	Egypt	China	Brazil	Mexico	Peru	All Other Countries	Total
1913-14	14,156,000	4,239,000 ²	1,026,000	1,588,000	4,000,000 ³	397,000 ⁴	205,000	133,000	515,000	26,259,000
1914-15	16,135,000	4,350,000 ²	1,270,000	1,337,000	4,500,000	387,000 ⁴	108,000	129,000	462,000	28,687,000
1915-16	11,192,000	3,128,000 ²	1,512,000	989,000	3,000,000 ³	282,000	95,000	113,000	378,000	20,689,000
1916-17	11,450,000	3,759,000 ²	1,199,000	1,048,000	1,534,000	281,000	103,000	127,000	344,000	19,845,000
1917-18	11,302,000	3,383,000 ²	634,000	1,304,000	2,092,000	345,000	135,000	125,000	345,000	19,675,000
1918-19	12,041,000	3,328,000 ²	161,000	999,000	3,053,000	339,000	203,000	142,000	347,000	20,613,000
1919-20	11,421,000	4,883,000 ²	81,000	1,155,000	2,599,000	506,000	199,000	155,000	415,000	21,384,000
1920-21	13,440,000	3,013,000 ²	58,000	1,251,000	1,883,000	370,000	188,000	164,000	508,000	20,875,000
1921-22	7,954,000	3,748,000 ²	43,000	902,000	1,517,000	505,000	147,000	157,000	357,000	15,330,000
1922-23	9,729,000	4,220,000 ⁵	55,000	1,229,000	1,360,000 ⁵	535,000	178,000	190,000	430,000	17,926,000
1923-24	10,171,000	4,400,000 ⁵	260,000	1,289,000	1,420,000 ⁵	575,000	138,000	201,000 ⁵	582,000	19,036,000
1924-25	13,639,000	5,100,000 ⁵	453,000	1,450,000	1,320,000 ⁵	605,000	280,000	200,000 ⁵	789,000	23,836,000
1925-26	16,123,000	4,845,000 ⁵	737,000	1,610,000	1,400,000 ⁵	602,000	202,000	185,000 ⁵	974,000	26,678,000
1926-27	17,755,000	4,230,000 ⁵	755,000	1,695,000	1,335,000 ⁵	449,000	360,000	245,000 ⁵	995,000	27,819,000
1927-28	12,413,000	4,715,000 ⁵	983,000	1,250,000	1,930,000 ⁵	492,000	179,000	215,000 ⁵	879,000	23,426,000
1928-29	14,297,000	4,865,000 ⁵	1,208,000	1,660,000	1,550,000 ⁵	520,000	272,000	210,000 ⁵	1,046,000	25,628,000
1929-30	14,548,000	5,120,000 ⁵	1,325,000	1,750,000	1,825,000 ⁵	535,000	246,000	250,000 ⁵	1,074,000	26,673,000

¹ Running bales from 1922 to date.² Total Indian production.³ Estimates which include production in the most important provinces where the commercial crop is grown.⁴ Unofficial.⁵ Consists of cotton exported and cotton consumed in spinning mills.

World Cotton Production and Consumption

[In bales of 478 pounds lint]

Source: United States Department of Commerce

COTTON YEAR ENDING JULY 31	World Production (Bales)	CONSUMPTION			PER CENT OF WORLD TOTAL CONSUMED BY —		
		World (Bales)	European (Bales)	United States (Bales)	Europe	United States	Other Countries
1912-13	21,550,000	22,055,000	12,158,000	5,575,000	55	25	20
1913-14	22,612,000	22,198,000	12,029,000	5,465,000	54	25	21
1914-15	24,861,000	20,670,000	10,606,000	5,455,000	51	26	23
1915-16	18,461,000	21,978,000	10,878,000	6,270,000	50	28	22
1916-17	18,924,000	21,108,000	9,044,000	6,633,000	43	32	25
1917-18	18,141,000	18,515,000	6,621,000	6,435,000	36	35	29
1918-19	18,765,000	16,704,000	5,962,000	5,831,000	36	35	29
1919-20	20,220,000	19,300,000	7,700,000	6,485,000	40	34	26
1920-21	19,665,000	16,905,000	6,735,000	4,905,000	40	29	31
1921-22	15,334,000	19,990,000	7,916,000	5,910,000	39	30	31
1922-23	17,926,000	21,325,000	8,129,000	6,666,000	38	31	31
1923-24	19,036,000	19,982,000	8,393,000	5,681,000	42	28	30
1924-25	23,836,000	22,642,000	9,689,000	6,193,000	43	30	27
1925-26	26,678,000	23,930,000	10,031,000	6,456,000	42	31	27
1926-27	27,812,000	25,869,000	10,884,000	7,190,000	42	30	28
1927-28	23,370,000	25,285,000	11,071,000	6,834,000	44	27	29
1928-29	25,611,000	25,782,000	11,097,000	7,091,000	43	28	29
1929-30	26,673,000	24,946,000	10,586,000	6,114,000	42	25	33

Range of Staple of Various Cottons

Source: Department of Agriculture

UNITED STATES

American-Egyptian	1 $\frac{3}{8}$ to 1 $\frac{5}{8}$ inches, bulk about 1 $\frac{1}{16}$ inches
Upland Long Staples (Mississippi Delta and Arkansas)	1 $\frac{1}{16}$ to 1 $\frac{5}{16}$ inches
Western Uplands	7/8 to 1 $\frac{1}{16}$ inches, with some 1 $\frac{1}{8}$ inches
Eastern Uplands	7/8 to 1 inch, with some below 7/8 and some above 1 inch

INDIA

Dharwar No. 1 (Kumpta)	7/8 to 1 inch
Gadag No. 1 (Dharwar-American)	1 $\frac{1}{16}$ to 1 $\frac{15}{16}$ inch
Surat	1 $\frac{5}{16}$ to 1 $\frac{1}{16}$ inches
Punjab American	5/8 to 1 $\frac{1}{8}$ inches
Cambodia	7/8 to 1 $\frac{1}{8}$ inches
Hagari (Sirear)	5/8 to 7/8 inch
Bengal	1/2 to 5/8 inch

EGYPT

Uppers (high grade)	1 $\frac{1}{16}$ to 1 $\frac{1}{8}$ inches
Uppers (low grade)	1 $\frac{1}{16}$ inches
Upper (Ashmouni)	1 $\frac{1}{8}$ inches
Upper (Zagora)	1 $\frac{5}{32}$ inches
Sakellaridis (high grade)	1 $\frac{5}{8}$ inches
Sakellaridis (low grade)	1 $\frac{3}{16}$ to 1 $\frac{1}{4}$ inches
Cazuli	1 $\frac{7}{16}$ inches
Nahda	1 $\frac{7}{16}$ inches
Pilion	1 $\frac{5}{16}$ inches
Sakellaridis Domains	1 $\frac{5}{8}$ inches
310	1 $\frac{1}{16}$ inches

PERU

Smooth Tanguis	1 $\frac{1}{4}$ inches
Rough Tanguis	1 $\frac{5}{32}$ inches
Egipto Tanguis	1 $\frac{3}{32}$ inches
Mitafifi	1 $\frac{1}{4}$ inches
Pima Peruvian	1 $\frac{5}{8}$ inches
Full Rough Tanguis	1 $\frac{3}{16}$ inches
Moderate (semi-rough)	1 $\frac{3}{16}$ inches

CHINA

Tungchow	1 $\frac{3}{16}$ inch
Hakush	1/2 to 5/8 inch
Sengsi (Shensi)	5/8 to 7/8 inch
Lingpao	1 $\frac{1}{16}$ inches
Tien Tsin	Half and half
Indo China	7/8 inch

BRAZIL

Sao Paulo	7/8 inch
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Weight, Size, Density and Tare of Foreign Bales

Source: United States Department of Commerce

	Egyptian	East Indian (Seinde)	African (Other than Egyptian)	BRAZIL		Mexican
				Pernambuco	Rio	
Gross weight, pounds	741	334	400	354	142	508
Size of bales:						
Height (inches)	52	32	40 $\frac{1}{2}$	51	56	49
Width (inches)	21 $\frac{1}{2}$	18	27	18	16	29
Depth (inches)	32	27	27	21	30	46
Density per cubic foot (pounds)	35.8	37.1	23.41	31.749	9.13	13.43
Contents (cubic feet)	20.7	9.0	17.08	11.15	15.55	37.82
Tare allowance (pounds)	22	8-9	10	11 $\frac{3}{4}$	5	8

Weight, Size, Density and Tare of United States Bales

Source: United States Department of Commerce

	Flat	Standard	High Density	Round
Gross weight, pounds	500	500	500	250
Size of bales:				
Height (inches)	57	58	59	35
Width (inches)	27	18	19	20
Depth (inches)	46	28	24	20
Density per cubic foot (pounds)	12.21	29.58	32.12	35
Contents (cubic feet)	40.96	16.91	15.56	6.35
Tare allowance (pounds)	21-28	21-28	21-28	2 $\frac{1}{2}$

Cost of Production of Raw Cotton¹

Source: United States Department of Agriculture

YIELD GROUPS (POUNDS OF LINT PER ACRE)	NET COST OF LINT	
	Per Acre	Per Pound
100 pounds and under	\$20.43	\$ 0.29
101 to 180 pounds	24.11	.16
181 to 260 pounds	31.67	.14
261 to 340 pounds	34.96	.12
341 to 420 pounds	41.32	.11
421 pounds and over	46.15	.09

¹ Crop of 1929-30.

Estimated Cotton Production of Minor Producing Areas

[In bales of 478 pounds net]

Source: Bureau of Foreign and Domestic Commerce

	1926-27 ¹	1927-28 ¹	1928-29 ¹	1929-30 ¹
Guatemala	1	500	325	300
Salvador	—	—	500	216
Colombia	1,000	10,000	10,000	10,000
Venezuela	(12,000)	12,000	10,000	10,000
Ecuador	5,400	4,000	3,000	4,000
Paraguay	11,000	11,000	15,000	17,000
Argentina	58,000	102,000	115,000	130,000
Haiti	22,000	22,000	21,000	22,000
Other West Indies	5,000	4,500	4,500	4,000
Greece	30,000	35,000	35,000	35,000
Malta	500	(500)	500	(500)
Cyprus	3,600	6,000	5,000	5,000
Jugoslavia	200	600	218	345
Bulgaria	3,000	4,000	4,000	4,000
Italy	4,500	4,500	4,500	3,300
Korea	145,000	135,000	150,000	138,000
French Indo-China	(15,000)	(15,000)	10,000	12,000
Siam	4,000	3,000	3,000	(3,000)
Iraq	2,900	1,500	4,300	2,800
Persia	90,000	86,000	100,000	100,000
Turkey	97,000	105,000	85,000	150,000
Dutch East Indies	2,000	3,000	4,000	4,000
New Hebrides	2,000	2,000	2,000	2,000
Australia	4,000	4,000	5,000	5,000
Fiji, etc.	380	522	79	103
Uganda	101,000	116,000	164,000	104,000
Tanganyika	21,000	14,000	28,000	24,000
Nigeria	40,000	22,000	28,000	33,000
Union of South Africa	8,571	11,233	9,000	10,000
Rhodesia	1,500	800	344	1,696
Sudan	130,000	110,000	142,000	137,000
French West Africa	27,000	24,000	13,000	18,000
Belgian Congo	10,000	10,000	27,000	30,000
Togoland	(5,000)	7,600	7,100	7,000
Nyasaland	4,000	2,000	4,000	5,000
Mozambique	2,500	(2,500)	4,000	7,200
Algeria	9,000	5,000	6,000	7,700
Eritrea	2,300	2,500	460	500
Italian Somaliland	3,000	2,500	7,000	8,000
Gold Coast	(500)	(500)	18	1,500
Angola	(2,000)	2,000	2,000	(2,000)
Kenya	2,000	1,500	1,500	(1,500)
Total	887,852	905,755	1,035,344	1,060,660

¹ Figures in parentheses are carried forward from last year.

Cotton Acreage and Yield per Acre of Egypt, India and the United States

United States Bureau of the Census and Department of Agriculture

COTTON YEAR ¹	EGYPT		INDIA		UNITED STATES	
	Acres	Pounds	Acres	Pounds	Acres	Pounds
1904-05	1,491,000	420	19,918,000	77	31,215,000	206
1905-06	1,626,000	363	20,401,000	83	27,110,000	187
1906-07	1,564,000	440	22,488,000	87	31,374,000	202
1907-08	1,664,000	431	21,630,000	58	29,660,000	179
1908-09	1,703,000	393	19,999,000	74	32,444,000	195
1909-10	1,619,000	309	20,545,000	92	32,044,000	154
1910-11	1,664,000	453	22,596,000	68	32,403,000	171
1911-12	1,776,000	412	21,615,000	61	36,045,000	208
1912-13	1,787,000	417	22,028,000	84	34,283,000	191
1913-14	1,789,000	425	25,020,000	81	37,089,000	182
1914-15	1,823,000	353	24,595,000	85	36,832,000	209
1915-16	1,231,000	387	17,746,000	84	31,412,000	170
1916-17	1,718,000	295	21,745,000	83	34,985,000	157
1917-18	1,741,000	359	25,188,000	64	33,841,000	160
1918-19	1,366,000	338	21,038,000	76	36,008,000	160
1919-20	1,633,000	399	23,353,000	99	33,566,000	161
1920-21	1,897,000	336	21,341,000	68	35,878,000	178
1921-22	1,341,000	329	18,451,000	97	30,509,000	125
1922-23	1,868,000	360	21,077,000	98	33,036,000	142
1923-24	1,856,000	354	23,088,000	88	41,360,000	130
1924-25	1,856,000	329	24,833,000	98	40,115,000	157
1925-26	1,998,000	390	27,960,000	86	46,053,000	167
1926-27	1,853,000	386	25,006,000	79	47,087,000	182
1927-28	1,574,000	383	24,761,000	96	40,138,000	154
1928-29	1,805,000	442	27,053,000	85	45,341,000	152
1929-30	1,912,000	431	25,922,000	79	45,793,000	155
1930-31 ²	2,162,000	375	23,616,000	81	45,218,000	150

¹ Cotton year of United States and Egypt are same. Indian cotton year begins September 1.

² Preliminary.

Acreage and Crops of American-Egyptian Cotton

[Crops in 500-pound bales gross]

Source: United States Department of Agriculture

COTTON YEAR	Acreage Planted	Crop
1919-20	90,000	40,437
1920-21	240,000	91,965
1921-22	80,000	37,094
1922-23	77,000	32,824
1923-24	40,000	22,426
1924-25	8,000	4,319
1925-26	40,000	20,053
1926-27	27,000	16,232
1927-28	46,000	24,223
1928-29	44,000	30,000
1929-30	67,000	30,000
1930-31	46,000	27,900

Acreage and Production of Cotton in Egypt

Source: Egyptian Ministry of Finance

COTTON YEAR	ACREAGE		PRODUCTION		Yield per Feddan (Kantars)	Yield per Acre (Pounds)
	Feddans ¹	Acres	Kantars ²	Bales (478 Pounds)		
1913-14	1,723,094	1,789,000	7,664,000	1,592,050	4.44	425
1914-15	1,755,270	1,823,000	6,451,000	1,345,188	3.67	353
1915-16	1,186,004	1,231,000	4,775,000	995,815	4.02	387
1916-17	1,655,512	1,718,000	5,060,000	1,058,577	3.06	295
1917-18	1,677,310	1,741,000	6,293,000	1,306,485	3.75	359
1918-19	1,315,572	1,366,000	4,821,000	998,954	3.66	338
1919-20	1,573,662	1,633,000	5,572,000	1,363,110	3.54	399
1920-21	1,827,870	1,897,329	6,035,504	1,250,635	3.30	315
1921-22	1,289,826	1,338,839	4,352,958	901,989	3.37	322
1922-23	1,800,843	1,869,275	6,713,312	1,391,086	3.73	356
1923-24	1,715,150	1,780,326	6,531,457	1,353,403	3.81	363
1924-25	1,787,843	1,855,781	7,273,974	1,507,262	4.07	388
1925-26	1,924,382	1,997,509	7,964,645	1,650,378	4.14	395
1926-27	1,785,702	1,853,559	7,652,190	1,585,633	4.29	409
1927-28	1,516,199	1,573,815	6,087,188	1,261,344	4.01	383
1928-29	1,738,472	1,805,000	8,067,942	1,671,782	4.64	443
1929-30	1,841,478	1,911,454	8,531,000	1,767,737	4.63	442
1930-31 ³	2,082,851	2,162,000	8,015,400	1,660,903	3.85	367

¹ 1 feddan = 1.038 acres.² 1 kantar = 99.049 pounds.³ Preliminary estimates.

Acreage of Cotton planted, Acreage abandoned, and Acreage harvested in the United States

Source: United States Department of Agriculture

COTTON YEAR	Acreage planted ¹	Acreage abandoned	Acreage harvested
1913-14	37,458,000	369,000	37,089,000
1914-15	37,406,000	574,000	36,832,000
1915-16	32,107,000	695,000	31,412,000
1916-17	36,052,000	1,067,000	34,985,000
1917-18	34,925,000	1,084,000	33,841,000
1918-19	37,207,000	1,199,000	36,008,000
1919-20	35,133,000	1,567,000	33,566,000
1920-21	37,043,000	1,165,000	35,878,000
1921-22	31,678,000	1,169,000	30,509,000
1922-23	34,016,000	980,000	33,036,000
1923-24	38,701,000	867,000	37,123,000
1924-25	41,390,000	1,275,000	41,360,000
1925-26	48,090,000	2,037,000	46,053,000
1926-27	48,730,000	1,636,000	47,087,000
1927-28	41,905,000 ²	1,760,000	40,138,000
1928-29	46,946,000 ²	1,605,000	45,341,000
1929-30	47,067,000 ²	1,274,000	45,793,000
1930-31	46,191,000 ²	973,000	45,218,000

¹ Acreage planted is computed as of June 25 each year.² Acreage planted is computed as of July 1.

Forecasts of American Cotton Crops by United States Department of Agriculture compared with Actual Yield and Production

Forecasts of Yield per Acre

YEAR	FORECASTS OF YIELD PER ACRE (POUNDS)						Actual Yield (Pounds)	POUNDS VARIATION OF FORECAST FROM ACTUAL YIELD					
	May 25	June 25	July 25	Aug. 25	Sept. 25	Dec. Est.		May 25	June 25	July 25	Aug. 25	Sept. 25	Dec. Est.
1917	162.5	162.5	166.9	174.6	168.3	155.7	159.7	+2	+2	+7	+14	+8	-2
1918	171.3	199.8	177.3	145.2	154.1	155.9	159.6	+9	+40	+17	-14	-5	-3
1919	—	156.4	159.8	156.8	158.0	165.0	161.5	-5	-5	-5	-1	-3	-3
1920	—	155.9	170.4	174.0	165.0	170.0	178.4	-	-22	-8	-4	-13	-8
1921	—	152.2	127.0	148.0	126.0	126.9	124.5	-	+28	+24	+3	-6	+2
1922	—	151.0	145.0	145.0	139.0	141.6	141.5	-	+10	+16	+4	-2	+0
1923	—	142.6	143.9	134.8	137.4	128.0	130.6	-	+12	+13	+4	+7	-2
1924	—	143.8	141.3	153.5	143.5	156.8	157.6	-	-13	-16	-2	-8	+0
1925	—	147.7	140.0	144.1	143.2	162.3	167.2	-	-20	-27	-23	-23	-5
1926	—	158.5	155.8	154.6	160.0	187.0	181.9	-	-23	-26	-27	-21	+6
1927	—	—	—	156.8	149.3	152.3	154.5	-	-	+2	-5	-5	-2
1928	—	—	—	152.2	153.9	152.9	152.9	-	-	-1	+1	-1	-1
1929	—	—	—	159.3	152.2	155.3	155.3	-	-	+4	-3	-3	-0
1930	—	—	—	155.3	153.2	150.8	147.0	-	-	+8	+6	+6	+3

¹ 1925 and 1926 reports were dated June 25, July 16, August 16, September 16 and December 8. ² Reports were dated August 1, September 1 and December 1.

Forecasts of Total Crop
[1500-pound gross bales, exclusive of linters]

YEAR	FORECASTS OF CROPS						Actual Production	AMOUNT OF VARIATION OF FORECASTS FROM ACTUAL PRODUCTION				
	June 25	July 25	Aug. 25	Sept. 25	Dec. Est.	June 25	July 25	Aug. 25	Sept. 25	Dec. Est.	June 25	July 25
1917	11,633,000	11,949,000	12,409,000	12,047,000	10,949,000	11,302,375	+330,625	+646,625	+1,196,625	+744,625	-340,532	-333,375
1918	15,325,000	13,619,000	11,137,000	11,818,000	11,700,000	12,040,532	+323,322	+357,468	+1,404,763	-90,763	-222,532	-340,532
1919	10,986,000	11,016,000	11,230,000	10,696,000	11,030,000	11,420,763	-434,763	-1,404,763	-1,989,603	-520,603	-724,763	-390,763
1920	11,450,000	12,519,000	12,783,000	12,193,000	12,123,000	13,439,503	-1,989,603	-520,603	-656,603	-1,316,603	-452,603	-386,359
1921	8,433,000	8,203,000	7,037,000	8,340,000	6,537,000	7,953,641	+479,339	+479,339	-916,641	-1,416,641	+191,931	+191,931
1922	11,065,000	11,449,000	10,575,000	10,135,000	9,964,000	9,762,069	+1,302,931	+1,686,931	+812,931	+372,931	+874,329	+874,329
1923	11,412,000	11,516,000	10,788,000	10,081,000	11,015,000	10,139,671	+1,272,329	+1,376,329	+648,329	+87,329	-58,329	-58,329
1924	12,144,000	11,934,000	12,956,000	12,506,000	13,153,000	13,627,936	-1,483,936	-1,693,936	-671,936	-1,031,936	-474,936	-474,936
1925	14,339,000	13,588,000	13,990,000	13,391,000	15,603,000	16,103,679	-1,603,679	-2,113,679	-2,172,679	-500,679	-2,167,374	-640,679
1926	15,635,000	15,368,000	15,248,000	15,810,000	18,618,000	17,977,574	-2,348,574	-2,009,374	+535,937	-264,043	-167,043	-167,043
1927	—	—	—	—	—	—	—	—	-186,874	-38,874	-104,874	-104,874
1928	—	—	—	—	—	—	—	—	+717,051	-949	+93,051	+93,051
1929	—	—	—	—	—	—	—	—	+432,059	+410,059	+313,059	+313,059

¹ 1925 and 1926 reports were dated June 25, July 16, August 16, September 16 and December 8.

² Reports were dated August 1, September 1 and December 1.

Computation of Cotton Crop Condition

The following statement from the Bureau of Agricultural Economics outlines the method used to obtain the government cotton crop condition estimate:

The condition figures published by this Bureau are based upon a normal condition. A normal condition is such a condition as would be expected at the date to which the report relates if conditions are favorable to the crop; that is to say, assuming that good seed had been planted under favorable conditions and that the crop had not suffered material injury from drought, storms, insect pests, plant diseases, or other unfavorable influences. Normal is not an ideal condition, but represents something rather close to the average of good years. The bearing of condition is upon final yield per acre rather than upon total production, because condition does not involve the question of acreage.

The yield per acre to be expected from a condition of 100 per cent or normal for any month is determined each year by a study of the relation of condition in that month to final yield in previous years. The reported per cent of a normal June 25 condition would, of course, indicate a corresponding per cent of the established normal yield per acre for June 25. This promised yield per acre, being multiplied by the number of acres, gives an indication of total production. All such forecasts are based upon the assumption that conditions affecting the crop developing after the date of report will be average and that the final yield will prove greater or less than the forecast according as such future influences prove more or less favorable than in an average year.

A condition in June of 71 would not necessarily indicate the same production as the same figure for the following month because conditions average higher in June than in July for most crops, and distinctly so for cotton. The comparison each month is with normal conditions for that month. While the conditions of 71 per cent normal in June might be 80 per cent of the June *average* condition, the same per cent of July normal might be 90 per cent of July *average* condition and indicate a correspondingly higher yield.

Condition of American Cotton Crops on August 1

Source: United States Department of Agriculture

STATE	1923 ²	1924 ²	1925 ¹	1926 ¹	1927	1928	1929	1930
Virginia	88	54	76	71	75	82	77	72
North Carolina . . .	82	56	77	68	78	73	68	74
South Carolina . . .	64	59	71	55	66	64	68	74
Georgia	48	76	74	61	65	62	69	71
Florida	52	76	82	80	71	62	70	72
Alabama	66	70	78	71	70	59	71	62
Mississippi	65	70	83	70	68	66	76	60
Louisiana	68	66	76	71	64	66	69	54
Texas	71	69	56	73	69	70	64	61
Arkansas	68	70	85	72	68	67	73	46
Tennessee	69	68	79	71	69	68	81	61
Missouri	70	65	80	79	61	55	81	64
Oklahoma	63	72	76	78	75	71	72	60
California	88	90	92	99	90	90	86	92
Arizona	91	94	94	89	85	87	86	92
New Mexico	85	83	82	84	83	85	86	89
All other	—	70	79	73	67	62	81	70
United States . .	67.2	68.5	70.4	70.7	69.5	67.9	69.6	62.2

¹ Condition on July 16. Change due to the inauguration of semi-monthly reports.² Condition on July 25.

Condition of American Cotton Crops on September 1

Source: United States Department of Agriculture

STATE	1923 ²	1924 ²	1925 ¹	1926 ¹	1927	1928	1929	1930
Virginia	93	62	79	65	70	78	80	61
North Carolina . . .	71	59	75	73	64	69	68	67
South Carolina . . .	57	59	53	53	48	58	63	66
Georgia	42	70	61	56	55	58	59	66
Florida	30	72	78	70	58	58	62	79
Alabama	52	70	70	65	58	59	59	59
Mississippi	48	65	77	67	57	60	60	52
Louisiana	53	50	65	64	55	53	55	44
Texas	55	61	46	61	56	61	46	53
Arkansas	57	71	79	67	55	61	58	33
Tennessee	64	72	82	70	60	65	67	47
Missouri	67	70	81	74	52	64	77	42
Oklahoma	46	75	74	66	51	53	50	42
California	88	90	93	94	90	87	88	92
Arizona	90	85	92	83	90	87	83	90
New Mexico	88	92	77	86	90	89	81	82
All other	—	75	92	79	77	62	83	47
United States . .	54.1	64.9	62.0	63.5	56.1	60.3	55.4	53.2

¹ Condition on August 16.² Condition on August 25.

Condition of American Cotton Crops on October 1

Source: United States Department of Agriculture

STATE	1923 ²	1924 ²	1925 ¹	1926 ¹	1927	1928	1929	1930
Virginia	83	60	64	66	64	70	70	53
North Carolina	64	52	62	69	57	59	55	63
South Carolina	53	47	43	55	44	49	55	65
Georgia	31	59	53	56	54	50	58	67
Florida	20	71	71	65	57	50	67	85
Alabama	42	59	64	62	60	50	57	45
Mississippi	37	57	73	62	58	54	64	60
Louisiana	45	48	70	58	54	50	59	53
Texas	56	52	42	57	55	58	47	40
Arkansas	50	59	64	59	54	53	58	48
Tennessee	47	60	60	54	56	56	67	45
Missouri	64	63	64	61	50	57	73	54
Oklahoma	49	64	55	62	44	47	49	34
California	84	77	90	92	91	85	88	85
Arizona	90	72	92	81	87	80	83	88
New Mexico	84	85	85	90	85	84	75	92
All other	—	77	75	69	69	69	79	52
United States	49.5	55.4	53.8	59.5	54.2	54.4	55.0	53.5

¹ Condition on September 16.² Condition on September 25.

Condition of American Cotton Crop on Reporting Dates in 1929

Source: United States Department of Agriculture

STATE	Aug. 1, 1930	Sept. 1, 1930	Oct. 1, 1930
Virginia	72	61	53
North Carolina	74	67	63
South Carolina	74	66	65
Georgia	71	66	67
Florida	72	79	85
Alabama	62	59	45
Mississippi	60	52	60
Louisiana	54	44	53
Texas	61	53	40
Arkansas	46	33	48
Tennessee	61	47	45
Missouri	64	42	54
Oklahoma	60	42	34
California	92	92	85
Arizona	92	90	88
New Mexico	89	82	92
All other	70	47	52
United States	62.2	53.2	53.5

United States Cotton Production, per Acre, by States

[In pounds for cotton years]

Source: United States Department of Agriculture

STATE	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28	1928-29	1929-30	1930-31
United States .	141.3	130.6	157.4	167.7	182.6	154.5	152.9	155.0	147.7
Alabama . .	142	91	154	185	196	180	150	174	187
Arizona . .	222	292	285	350	349	315	357	324	346
Arkansas . .	173	98	169	205	195	157	162	178	107
California . .	188	285	284	340	387	340	378	402	468
Florida . .	102	40	130	180	145	126	97	145	200
Georgia . .	100	82	157	155	180	154	132	171	197
Louisiana . .	144	125	145	232	200	170	166	183	162
Mississippi . .	157	91	176	275	241	194	175	220	165
Missouri . .	360	171	185	275	240	188	210	308	195
New Mexico . .	—	230	266	298	299	352	360	333	375
North Carolina .	250	290	196	261	292	238	215	190	225
Oklahoma . .	103	98	187	155	181	138	136	128	102
South Carolina .	123	187	160	160	182	148	147	179	220
Tennessee . .	190	92	170	210	188	178	185	217	147
Texas . .	130	147	138	143	147	129	138	108	114
Virginia . .	230	325	180	250	264	230	265	258	225
All other . .	—	226	164	214	189	160	152	227	173

Acreage of Cotton harvested in the United States

Source: United States Department of Agriculture

STATE	THOUSANDS OF ACRES FOR COTTON YEARS							
	1923-24	1924-25	1925-26	1926-27	1927-28	1928-29	1929-30	1930-31
Total . .	37,123	41,360	46,053	47,087	40,138	45,341	45,793	45,091
Alabama . .	3,079	3,055	3,504	3,651	3,166	3,534	3,690	3,770
Arizona . .	127	180	162	167	139	200	226	215
Arkansas . .	3,026	3,094	3,738	3,790	3,048	3,681	3,858	3,908
California ¹ . .	233	317	319	292	238	218 ²	306 ²	270 ²
Florida . .	147	80	101	105	64	95	94	120
Georgia . .	3,421	3,046	3,589	3,965	3,413	3,728	3,753	3,863
Louisiana . .	1,405	1,616	1,874	1,979	1,542	1,990	2,114	2,110
Mississippi . .	3,170	2,981	3,466	3,752	3,340	4,029	4,166	4,243
Missouri . .	355	493	520	434	291	334	341	369
New Mexico . .	60	101	107	120	95	117	130	127
North Carolina .	1,679	2,005	2,017	1,985	1,728	1,860	1,878	1,643
Oklahoma . .	3,197	3,861	5,214	4,676	3,601	4,243	4,275	3,997
South Carolina .	1,965	2,404	2,654	2,648	2,356	2,361	2,216	2,173
Tennessee . .	1,172	996	1,173	1,143	965	1,107	1,136	1,225
Texas . .	14,150	17,175	17,608	18,374	16,176	17,743	17,500	16,950
Virginia . .	74	102	100	93	64	79	88	89
All other . .	73	41	57	43	22	22	19	19

¹ Lower California (110,000 acres in 1927; 130,000 in 1926; 150,000 in 1925; 140,000 in 1924; 148,000 in 1923; 135,000 in 1922); included in California figures, but excluded from United States totals.

² Lower California (160,000 acres in 1928, 147,000 in 1929 and 100,000 in 1930) are not included in California figures or United States totals.

United States Production of Cotton and Linters

Source: United States Bureau of the Census

COTTON YEAR ENDING JULY 31	COTTON, EXCLUSIVE OF LINTERS		LINTERS		COTTON, INCLUDING LINTERS	
	Running Bales, Counting Round as Half Bales	Equivalent 500-Pound Bales Gross Weight	Running Bales	Equivalent 500-Pound Bales Gross Weight	Running Bales, Counting Round as Half Bales	Equivalent 500-Pound Bales Gross Weight
1905	13,451,337	13,438,012	245,973	241,942	13,697,310	13,679,954
1906	10,495,105	10,575,017	230,497	229,539	10,725,602	10,804,556
1907	12,983,201	13,273,809	322,064	321,689	13,305,265	13,595,498
1908	11,057,822	11,107,179	268,060	268,282	11,325,882	11,375,461
1909	13,086,005	13,241,799	346,126	345,507	13,432,131	13,587,306
1910	10,072,731	10,004,949	313,478	310,433	10,386,209	10,315,382
1911	11,568,334	11,608,616	397,628	397,072	11,965,962	12,005,688
1912	15,553,073	15,692,701	556,276	557,575	16,109,349	16,250,276
1913	13,488,539	13,703,421	602,324	609,594	14,090,863	14,313,015
1914	13,982,811	14,156,486	631,153	638,881	14,613,964	14,795,367
1915	15,905,840	16,134,930	832,401	856,900	16,738,241	16,991,830
1916	11,068,173	11,191,820	944,640	931,141	12,012,813	12,122,961
1917	11,363,915	11,449,930	1,300,163	1,330,714	12,664,078	12,780,644
1918	11,248,242	11,302,375	1,096,422	1,125,719	12,344,664	12,428,094
1919	11,906,480	12,040,532	910,236	929,516	12,816,716	12,970,048
1920	11,325,532	11,420,763	595,093	607,969	11,920,625	12,028,732
1921	13,270,970	13,439,603	429,005	440,313	13,699,975	13,879,916
1922	7,977,778	7,953,641	382,375	397,752	8,360,153	8,351,393
1923	9,729,306	9,762,069	590,537	607,779	10,319,843	10,369,848
1924	10,170,694	10,139,671	639,540	668,600	10,810,234	10,808,271
1925	13,639,399	13,627,936	857,962	897,375	14,497,361	14,525,311
1926	16,122,516	16,103,679	1,044,495	1,114,877	17,167,011	17,218,556
1927	17,755,070	17,977,374	1,041,864	1,157,861	18,796,934	19,135,235
1928	12,783,112	12,956,043	875,121	1,016,375	13,658,233	13,972,418
1929	14,296,549	14,477,874	1,085,766	1,282,061	15,382,315	15,759,935
1930	14,547,791	14,824,861	1,038,170	1,241,355	15,585,961	16,066,216

Summary of Commercial Crops of American Cotton

[In running bales, including linters for cotton years]

Source: New Orleans Cotton Exchange

	1925-26	1926-27	1927-28	1928-29	1929-30
Port receipts . . .	10,037,603	12,902,055	8,556,783	9,557,256	8,815,930
Overland to mills . .	1,517,750	1,628,931	1,202,932	1,551,998	1,182,083
Southern consumption . .	4,778,926	5,471,391	5,316,168	5,623,265	4,950,854
Total movement . .	16,334,279	20,002,377	15,075,883	16,732,519	14,948,867
Less taken by southern mills from ports . .	719,572	796,448	631,949	947,163	435,195
Total crops . .	15,614,707	19,205,929	14,443,934	15,785,356	14,513,672

United States Commercial Crops of Cotton

[Cotton years]

Source: New Orleans Cotton Exchange

STATE	1925-26	1926-27	1927-28	1928-29	1929-30
Alabama . . .	1,244,000	1,523,000	1,280,000	1,169,000	1,215,000
Arkansas . . .	1,443,000	1,803,000	1,213,000	1,336,000	1,389,000
Florida . . .	41,000	35,000	21,000	23,000	30,000
Georgia . . .	1,174,000	1,615,000	1,270,000	1,185,000	1,254,000
Louisiana . . .	833,000	843,000	595,000	727,000	772,000
Oklahoma . . .	1,606,000	1,846,000	1,119,000	1,309,000	1,141,000
Mississippi . .	1,847,000	1,971,000	1,551,000	1,606,000	1,812,000
North Carolina, etc. ¹	1,138,000	1,407,000	1,023,000	999,000	831,000
South Carolina . .	910,000	1,093,000	856,000	819,000	800,000
Tennessee, etc. ² . .	1,133,000	1,172,000	823,000	1,089,000	1,257,000
Texas . . .	4,246,000	5,898,000	4,693,000	5,523,000	4,013,000
Total crop . .	15,615,000	19,206,000	14,444,000	15,785,000	14,514,000

¹ Including Virginia and Kentucky.² Including Missouri, California, Arizona, etc.

United States Production of Cotton, Exclusive of Linters

[Running bales, counting round as half bales for cotton years]

Source: United States Bureau of the Census

STATE	1925	1926	1927	1928	1929	1930 ¹
Alabama .	1,356,402	1,470,404	1,173,430	1,096,624	1,307,664	1,444,597
Arizona .	115,359	120,089	90,281	145,731	149,467	150,462
Arkansas .	1,594,389	1,513,382	979,481	1,216,241	1,395,869	863,449
California .	122,260	128,835	89,998	171,042	254,126	255,717
Florida .	40,208	33,231	17,361	20,053	29,849	51,118
Georgia .	1,192,952	1,498,473	1,111,399	1,053,205	1,339,835	1,597,248
Louisiana .	912,246	826,179	543,153	685,868	797,727	704,754
Mississippi .	1,985,524	1,857,525	1,346,489	1,462,021	1,875,979	1,458,431
Missouri .	292,950	215,769	116,024	146,921	220,907	152,941
New Mexico .	64,706	70,206	64,920	82,177	86,296	95,841
North Carolina	1,147,340	1,246,754	879,677	869,248	767,043	800,375
Oklahoma .	1,680,304	1,760,644	1,009,626	1,187,042	1,125,614	856,967
South Carolina	929,040	1,025,991	738,550	744,390	833,054	1,015,015
Tennessee .	513,130	442,052	355,975	423,471	504,282	371,690
Texas .	4,098,249	5,477,788	4,229,367	4,941,545	3,803,211	3,886,141
Virginia .	54,016	51,891	30,705	44,764	47,991	42,714
All other states	23,441	15,857	6,676	6,206	8,877	6,423
Total .	16,122,516	17,755,070	12,783,112	14,296,549	14,547,791	13,753,883

¹ March, 1931, preliminary report.

**Summary of Cotton Grade and Staple Report for the United States,
1929-30 and 1930-31**

Source: United States Department of Agriculture

	1929-30		1930-31 ¹	
	Bales	Per Cent	Bales	Per Cent
Total Crop (as reported by the Bureau of the Census)	14,547,800	100.0	13,753,900	100.0
Total American Upland	14,519,000	99.8	13,730,600	99.8
Total American-Egyptian	28,800	.2	23,300	.2
Grades (American Upland):				
White, Middling and better	9,181,200	63.3	9,509,000	69.3
White, Strict Low and Low Middling	2,691,500	18.5	2,315,600	16.9
White, Below Low Middling	366,800	2.5	131,800	.9
Spotted and Yellow Tinged	1,707,000	11.8	1,254,300	9.1
Light Yellow Stained, Yellow Stained Gray, Blue Stained	49,100	.3	7,200	.1
Tenderability on Section 5 futures contracts (American Upland):				
Total Tenderable	10,997,500	75.7	11,621,100	84.6
Tenderable $\frac{1}{8}$ " to $1\frac{1}{32}$ ", inclusive	9,439,300	65.0	10,221,100	74.4
Tenderable over $1\frac{1}{32}$ "	1,558,200	10.7	1,400,000	10.2
Total Untenderable	3,521,500	24.3	2,109,500	15.4
Untenderable in Grade	601,000	4.1	275,400	2.0
Untenderable in Staple	2,641,200	18.3	1,747,500	12.8
Untenderable in both Grade and Staple	279,300	1.9	86,600	.6
Staple (American Upland):				
Under $\frac{1}{8}$	2,920,500	20.1	1,834,100	13.4
$\frac{1}{8}$ and $\frac{29}{32}$	5,535,700	38.1	5,321,400	38.8
$1\frac{1}{16}$ and $\frac{31}{32}$	2,748,900	18.9	3,421,300	24.9
1 and $1\frac{1}{32}$	1,693,000	11.7	1,742,400	12.7
$1\frac{1}{16}$ and $1\frac{3}{32}$	937,400	6.5	966,900	7.0
$1\frac{1}{8}$ and longer	683,500	4.7	444,500	3.2

¹ April, 1931, preliminary report.

Average Grades of Recent Cotton Crops

Henry G. Hester, Secretary of the New Orleans Cotton Exchange, computes the average grades of recent American cotton crops to have been as follows:

- 1917-18, middling.
- 1918-19, barely middling.
- 1919-20, strict low middling.
- 1920-21, barely middling.
- 1921-22, middling.
- 1922-23, middling.
- 1923-24, strict low middling to middling.
- 1924-25, middling.
- 1925-26, strict low middling.
- 1926-27, strict low middling to middling.
- 1927-28, middling to strict middling.
- 1928-29, strict low middling to middling.
- 1929-30, strict low middling to middling.
- 1930-31,¹ middling.

¹ According to cotton grade and staple report.

Cotton Grade and Staple Report for the United States, 1930-31

Source: United States Department of Agriculture

GRADE	TOTAL		13 1/2 AND UNDER*		15 1/2		1 1/8 AND 1/2		1 1/8 AND 1 1/2 1/2		1 1/2 AND OVER	
	Bales	Per Cent	Bales	Bales	Bales	Bales	Bales	Bales	Bales	Bales	Bales	Bales
Total American Upland	13,730,600	100.0 ²	1,834,100	5,321,400	3,421,300	1,742,400	966,900	382,900	61,600			
Extra White	499,900	3.6	1,400	5,000	50,800	123,500	263,600	55,200	400			
Above 3-G. M.	1,100	.3	—	—	—	400	600	100	—			
3-G. M.	123,100	.9	—	100	3,700	26,800	80,200	12,200	100			
4-S. M.	213,900	1.6	—	300	16,800	45,000	118,800	32,800	200			
5-M.	106,100	.8	100	700	11,700	30,200	53,700	9,600	100			
5-S. L. M.	31,400	.2	—	500	6,200	14,600	9,600	500	—			
6-S. L. M.	4,900	.3	—	100	1,500	2,600	700	—	—			
7-L. M.	19,400	.1	1,300	3,300	10,900	3,900	—	—	—			
Below 7-L. M.*	11,956,400	87.1	1,593,300	4,678,800	3,100,400	1,523,900	676,800	322,900	60,300			
White	—	—	—	—	—	—	—	—	—			
1-M. F.	13,400	.1	2,600	4,900	4,000	1,600	200	100	—			
2-S. G. M.	895,700	6.5	124,500	281,700	269,700	142,300	42,300	28,400	6,800			
3-G. M.	4,384,900	32.0	634,900	1,695,600	1,164,700	587,800	186,600	92,200	23,100			
4-S. M.	4,215,000	30.7	483,000	1,676,400	1,084,000	530,600	278,800	138,300	23,900			
5-M.	1,743,700	12.7	214,000	722,500	430,100	197,000	123,600	51,000	5,500			
6-S. L. M.	571,900	4.2	105,000	245,500	121,000	50,400	37,700	11,400	900			
7-L. M.	111,900	.8	23,400	45,000	23,200	12,300	6,600	1,300	100			
8-S. G. O.*	19,900	.1	5,900	7,200	3,700	1,900	1,000	200	—			
9-G. O.*	—	—	—	—	—	—	—	—	—			
Spotted	1,200,000	8.7	219,600	601,400	256,600	91,100	25,800	4,600	900			
3-G. M.	148,200	1.1	35,300	71,100	29,800	9,600	1,900	300	200			
4-S. M.	555,500	4.0	86,700	278,900	122,300	51,000	14,000	2,200	400			
5-M.	328,300	2.4	56,700	163,800	73,500	23,800	8,400	1,800	300			
6-S. L. M.*	137,400	1.0	32,600	71,700	25,700	5,800	1,300	300	—			
7-L. M.*	30,600	.2	8,300	15,900	5,300	900	200	—	—			

Cotton Grade and Staple Report for the United States, 1930-31—(Continued)

GRADE	TOTAL		1 3/16 AND 1 1/2" BALES	7/8 BALES	1 1/2 AND 1 1/2" BALES	1 1/4 AND 1 5/8" BALES	1 1/4 AND 1 5/8" BALES
	BALES	PER CENT					
Yellow Tinged	54,300	.4	11,000	30,300	9,700	2,700	500
2-S. G. M.	100	3	—	100	—	—	—
3-G. M.	7,500	1	1,200	4,500	1,500	300	—
4-S. M.	20,300	.1	3,200	12,400	3,200	1,100	300
5-M.*	14,500	.1	3,000	7,800	2,700	800	200
6-S. L. M.*	9,500	.1	2,800	4,400	1,900	400	—
7-L. M.*	2,400	3	800	1,100	400	100	—
Light Yellow Stained	1,900	3	200	1,300	400	—	—
3-G. M.*	—	—	—	—	—	—	—
4-S. M.*	700	3	100	400	200	—	—
5-M.*	1,200	3	100	900	200	—	—
Yellow Stained	500	3	—	300	100	100	—
3-G. M.*	—	—	—	—	—	—	—
4-S. M.*	200	3	—	100	—	—	—
5-M.*	300	3	—	200	—	100	—
Gray	4,500	3	400	1,500	1,800	700	100
3-G. M.	400	3	—	100	200	100	—
4-S. M.	3,200	3	300	1,200	1,100	500	100
5-M.*	900	3	100	200	500	100	—
Blue Stained	300	3	—	100	100	—	—
3-G. M.*	100	3	—	100	—	—	—
4-S. M.*	—	—	—	—	100	100	—
5-M.*	200	3	—	—	100	—	—
No Grade ¹	12,800	.1	48,200	2,700	1,400	300	100
						100	—

¹ According to the Bureau of the Census, which on March 20, 1931, reported 13,753,883 bales, including 23,254 bales American-Egyptian, ginned during the crop year. Figures above rounded to nearest hundred bales.

² Percentages computed to the nearest one-tenth of one per cent.

³ Less than one-tenth of one per cent.

⁴ Includes all bales not otherwise classified above. * Unmarketable in settlement of futures contracts made subject to Section 5, U. S. Cotton Futures Act and the regulations of the Secretary of Agriculture thereunder.

**Cotton Grade and Staple Report for the United States, 1930-31—
(Concluded)**

American-Egyptian Cotton¹

GRADE			DISTRIBUTION OF EACH STAPLE LENGTH—IN INCHES				
	TOTAL		UNDER $1\frac{1}{2}$	$1\frac{1}{2}$ AND $1\frac{7}{32}$	$1\frac{9}{16}$ AND $1\frac{19}{32}$	$1\frac{5}{8}$ TO $1\frac{23}{32}$	$1\frac{3}{4}$ AND OVER
	Bales	Per Cent	Bales	Bales	Bales	Bales	Bales
Total.	23,300 ¹	100.0 ²	—	2,500	16,200	4,600	—
1 and $1\frac{1}{2}$	6,200	26.6	—	400	4,100	1,700	—
2 and $2\frac{1}{2}$	11,400	48.9	—	700	8,100	2,600	—
3 and $3\frac{1}{2}$	5,100	21.9	—	1,100	3,700	300	—
4 and $4\frac{1}{2}$	600	2.6	—	300	300	—	—
5	—	—	—	—	—	—	—
Below 5.	—	—	—	—	—	—	—

**American Upland
Percentage Distribution of Each Staple Length**

	TOTAL CROP		GINNED AFTER JANUARY 15	
	Bales	Per Cent	Bales	Per Cent
Total	13,730,600	100.0	158,500	100.0
$1\frac{3}{16}$ and under	1,834,100	13.4	14,800	9.3
$\frac{7}{8}$	5,321,400	38.8	62,600	39.6
$1\frac{3}{16}$	3,421,300	24.9	44,700	28.2
1 and $1\frac{1}{32}$	1,742,400	12.7	22,200	14.0
$1\frac{1}{16}$ and $1\frac{3}{32}$	966,900	7.0	11,800	7.4
$1\frac{1}{8}$ and $1\frac{5}{32}$	382,900	2.8	2,200	1.4
$1\frac{3}{16}$ and over	61,600	.4	200	.1

Tenderable According to Section 5, U. S. Cotton Futures Act

	TOTAL CROP		GINNED AFTER JANUARY 15	
	Bales	Per Cent	Bales	Per Cent
Total	13,730,600	100.0	158,500	100.0
Total Tenderable	11,621,100	84.6	90,400	57.0
Tenderable $\frac{7}{8}$ to $1\frac{1}{32}$ " inc.	10,221,100	74.4	77,500	48.9
Tenderable over $1\frac{1}{32}$ "	1,400,000	10.2	12,900	8.1
Total Untenderable	2,109,500	15.4	68,100	43.0

¹ March, 1931, preliminary report.

² Percentages computed to the nearest one-tenth of one per cent.

Active and Idle Gineries in the United States and Average Number of Running Bales ginned per Active Establishment

Source: United States Bureau of the Census

COTTON YEAR	Total Gineries	Active Gineries	Idle Gineries	Bales Ginned per Establishment
1919-20	22,418	18,815	3,603	602
1920-21	21,876	18,440	3,436	720
1921-22	20,938	16,192	4,746	493
1922-23	19,939	15,420	4,519	631
1923-24	19,195	15,298	3,897	665
1924-25	18,656	15,478	3,178	881
1925-26	18,262	15,482	2,780	1,041
1926-27	18,179	15,753	2,426	1,127
1927-28	17,566	14,863	2,703	860
1928-29	17,327	14,974	2,353	955
1929-30	17,129	14,868	2,261	978

Estimated Values of Cotton and Cotton Seed produced

Source: United States Bureau of the Census

COTTON YEAR	Value of Cotton Produced	Value of Cotton Seed Produced	Total Value of Cotton Crop
1919-20	2,030,960,000	340,470,000	2,371,430,000
1920-21	1,067,240,000	130,990,000	1,204,230,000
1921-22	675,630,000	104,560,000	780,190,000
1922-23	1,117,060,000	150,400,000	1,267,460,000
1923-24	1,455,170,000	190,050,000	1,645,220,000
1924-25	1,561,010,000	200,220,000	1,767,230,000
1925-26	1,577,480,000	220,360,000	1,797,840,000
1926-27	1,121,110,000	172,120,000	1,293,230,000
1927-28	1,308,040,000	206,960,000	1,515,000,000
1928-29	1,302,030,000	206,880,000	1,528,910,000
1929-30	1,244,840,000	200,540,000	1,445,380,000

Yearly Average Prices of Cotton and Cotton Seed paid to Producers in the United States

Source: United States Bureau of the Census

COTTON YEAR	Yearly Average Price of Lint Cotton per Pound (in Cents)	Yearly Average Price of Cotton Seed per Ton
1919-20	35.36	\$67.18
1920-21	15.89	22.92
1921-22	16.90	29.72
1922-23	22.85	34.70
1923-24	28.70	42.22
1924-25	22.91	34.16
1925-26	19.59	30.88
1926-27	12.47	21.63
1927-28	20.19	35.93
1928-29	17.99	35.39
1929-30	16.79	30.47

Cotton ginned to Specified Dates and throughout the Season

[Running bales, round bales counted as half bales. Linters not included]

[Cotton year]

Source: United States Bureau of the Census

COTTON GINNED TO —	1925-26	1926-27	1927-28	1928-29	1929-30	1930-31
September 1	1,886,399	696,556	1,533,577	956,577	1,568,434	1,878,253
October 1	7,126,248	5,643,139	5,944,739	4,961,360	5,903,265	6,304,608
October 18	9,518,946	8,727,709	8,117,625	8,151,271	9,094,704	9,252,011
November 1	11,207,197	11,253,873	9,920,846	10,162,482	10,891,940	10,863,601
November 14	12,260,352	12,956,444	10,894,912	11,320,688	11,890,006	11,962,364
December 1	13,870,507	14,644,070	11,738,338	12,560,154	12,853,166	12,834,970
December 13	14,831,846	15,540,804	12,072,763	13,144,333	13,456,783	13,259,622
January 16	15,499,893	16,616,075	12,501,447	13,888,972	14,176,936	13,592,104
Total ginnings	16,122,516	17,755,070	12,783,112	14,296,549	14,547,791	13,753,883 ¹

¹ March, 1931, preliminary report.

Estimated Quantity of Cotton Seed produced, Quantity of Cotton Seed crushed, and Quantities and Values of Crude Products obtained

Statistics of the quantity of seed produced relate to the preceding crop year. Those of the quantity crushed and of the quantities and values of products obtained relate to the year ending July 31.

Source: United States Bureau of the Census

Year	Cotton Seed produced (Tons)	Cotton Seed crushed (Tons)	Total Value of Products	Quantity of Oil (pounds)	Value of Oil	Quantity of Cake and Meal (Tons)	Value of Cake and Meal	Quantity of Hulls (Tons)	Value of Hulls	Quantity of Linters (Running Bales)	Value of Linters
1916	4,992,000	4,202,313	180,260,000	1,253,325,000	87,940,000	1,923,000	53,860,000	1,220,000	12,340,000	944,640	26,120,000
1917	5,113,000	4,479,176	287,192,000	1,407,660,000	153,419,000	2,225,000	74,586,000	969,000	13,994,000	1,300,163	45,183,000
1918	5,040,000	4,251,680	360,731,000	1,312,470,000	217,902,000	2,068,000	97,352,000	996,000	18,878,000	1,096,422	26,604,000
1919	5,360,000	4,478,508	383,580,000	1,325,333,000	227,316,000	2,170,000	116,119,000	1,137,000	17,917,000	910,236	22,228,000
1920	5,074,000	4,012,704	352,138,000	1,211,464,000	209,668,000	1,817,000	119,039,000	1,143,000	11,095,000	595,093	12,336,000
1921	5,971,000	4,069,166	156,513,000	1,309,183,000	84,650,000	1,786,000	58,298,000	1,256,000	10,059,000	429,005	3,505,000
1922	3,531,000	3,007,717	136,974,000	930,474,738	71,508,000	1,355,000	49,898,000	937,000	8,949,000	382,375	6,619,000
1923	4,336,000	3,241,557	173,254,000	1,002,922,464	84,818,000	1,487,000	59,037,000	944,000	12,200,000	590,537	17,199,000
1924	4,502,000	3,307,598	182,137,000	979,617,065	88,093,000	1,518,000	59,300,000	941,000	12,737,000	639,540	22,007,000
1925	6,051,000	4,603,227	240,865,000	1,403,781,177	126,665,000	2,125,618	79,173,000	1,330,764	13,749,000	857,962	21,268,000
1926	7,150,000	5,558,243	256,027,000	1,617,014,721	138,652,000	2,596,715	81,508,000	1,547,351	12,649,000	1,044,495	23,219,000
1927	7,989,000	6,305,775	240,284,000	1,887,910,155	142,242,000	2,840,084	72,476,000	1,854,389	8,882,000	1,041,864	16,684,000
1928	5,758,000	4,654,017	247,827,000	1,476,609,401	132,372,000	2,093,354	80,582,000	1,320,066	9,995,000	875,121	24,878,000
1929	6,435,000	5,061,058	265,247,000	1,604,131,038	133,906,000	2,281,576	90,706,000	1,368,279	12,842,000	1,085,766	27,793,000
1930	6,590,000	5,015,714	229,440,000	1,572,321,675	114,892,000	2,231,992	82,296,000	1,383,597	12,103,000	1,038,170	20,149,000

World's Takings of American Cotton during Past Four Seasons

[In thousands of running bales. Linters not included]

Source: New York Cotton Exchange

WEEK ENDING —	1926-27		1927-28		1928-29		1929-30	
	Week	Season	Week	Season	Week	Season	Week	Season
August 7	138	273	218	426	184	311	158	202
August 14	162	435	223	649	178	489	168	370
August 21	213	648	266	915	221	710	148	518
August 28	245	893	235	1,150	184	894	189	707
September 4	221	1,114	280	1,430	177	1,071	176	883
September 11	215	1,329	254	1,684	193	1,264	208	1,091
September 18	248	1,577	293	1,977	286	1,550	247	1,338
September 25	306	1,883	278	2,255	244	1,794	278	1,616
October 2	325	2,208	322	2,577	304	2,098	320	1,936
October 9	388	2,596	349	2,926	437	2,535	431	2,367
October 16	347	2,943	351	3,277	394	2,929	421	2,788
October 23	356	3,299	381	3,658	433	3,362	401	3,189
October 30	325	3,624	375	4,033	398	3,760	427	3,616
November 6	411	4,035	435	4,468	395	4,155	384	4,000
November 13	384	4,419	347	4,815	458	4,613	401	4,401
November 20	412	4,831	361	5,176	373	4,986	362	4,763
November 27	415	5,246	394	5,570	409	5,395	334	5,097
December 4	416	5,662	341	5,911	341	5,736	340	5,437
December 11	431	6,093	374	6,285	402	6,138	388	5,825
December 18	411	6,504	318	6,603	414	6,552	331	6,156
December 25	326	6,830	241	6,844	250	6,802	185	6,341
January 1	334	7,164	309	7,153	300	7,102	271	6,612
January 8	307	7,471	324	7,477	371	7,473	286	6,898
January 15	325	7,796	289	7,766	377	7,850	311	7,209
January 22	406	8,202	316	8,082	328	8,178	288	7,497
January 29	397	8,599	316	8,398	345	8,523	266	7,763
February 5	458	9,057	309	8,707	306	8,829	270	8,033
February 12	404	9,461	267	8,974	305	9,134	277	8,310
February 19	316	9,777	300	9,274	330	9,464	245	8,555
February 26	374	10,151	267	9,541	293	9,757	237	8,792
March 5	396	10,547	271	9,812	341	10,098	269	9,061
March 12	348	10,895	258	10,070	283	10,381	251	9,312
March 19	318	11,213	277	10,347	335	10,716	244	9,556
March 26	333	11,546	227	10,574	268	10,984	205	9,761
April 2	286	11,832	250	10,824	251	11,235	254	10,015
April 9	382	12,214	279	11,103	298	11,533	237	10,252
April 16	242	12,456	256	11,359	279	11,812	231	10,483
April 23	371	12,827	277	11,636	283	12,095	192	10,675
April 30	428	13,255	254	11,890	246	12,341	228	10,903
May 7	351	13,606	266	12,156	246	12,587	206	11,109
May 14	339	13,945	225	12,381	284	12,871	158	11,267
May 21	254	14,199	236	12,617	255	13,126	158	11,425
May 28	291	14,490	221	12,838	278	13,404	192	11,617
June 4	284	14,774	220	13,058	261	13,665	162	11,779
June 11	341	15,115	239	13,297	211	13,876	151	11,930
June 18	335	15,450	244	13,541	233	14,109	133	12,063
June 25	266	15,716	238	13,779	236	14,345	147	12,210
July 2	241	15,957	175	13,954	209	14,554	127	12,337
July 9	207	16,164	265	14,219	198	14,752	139	12,476
July 16	227	16,391	188	14,407	204	14,956	146	12,622
July 23	310	16,701	208	14,615	171	15,127	146	12,768
July 30 ¹	79	16,780	75	14,690	114	15,241	121	12,889

¹ Figures given under heading "Week" are for three days in 1926-27, five days in 1927-28, six days in 1928-29, and seven days in 1929-30. Figures under heading "Season" are cumulatives to July 31 in all seasons.

United States Takings of American Cotton during Past Four Seasons

[In thousands of running bales. Linters not included]

Source: New York Cotton Exchange

WEEK ENDING —	1926-27		1927-28		1928-29		1929-30	
	Week	Season	Week	Season	Week	Season	Week	Season
August 7	62	109	67	124	56	88	47	67
August 14	66	175	69	193	52	140	57	124
August 21	75	250	69	262	52	192	62	186
August 28	82	332	81	343	58	250	68	254
September 4	110	442	120	463	77	327	88	342
September 11	120	562	136	599	96	423	114	456
September 18	136	698	143	742	106	529	124	580
September 25	176	874	147	889	112	641	137	717
October 2	188	1,062	184	1,073	172	813	179	896
October 9	202	1,264	186	1,259	242	1,055	281	1,177
October 16	189	1,453	187	1,446	246	1,301	277	1,454
October 23	198	1,651	187	1,633	251	1,552	265	1,719
October 30	192	1,843	188	1,821	239	1,791	264	1,983
November 6	196	2,039	203	2,024	225	2,016	217	2,200
November 13	195	2,234	185	2,209	229	2,245	212	2,412
November 20	204	2,438	174	2,383	228	2,473	194	2,606
November 27	193	2,631	188	2,571	209	2,682	167	2,773
December 4	192	2,823	169	2,740	178	2,860	147	2,920
December 11	201	3,024	173	2,913	176	3,036	173	3,093
December 18	200	3,224	167	3,080	173	3,209	190	3,283
December 25	132	3,356	72	3,152	106	3,315	66	3,349
January 1	164	3,520	146	3,298	153	3,468	109	3,458
January 8	158	3,678	128	3,426	146	3,614	134	3,592
January 15	153	3,831	129	3,555	149	3,763	121	3,713
January 22	159	3,990	129	3,684	149	3,912	121	3,834
January 29	157	4,417	125	3,809	151	4,063	110	3,944
February 5	163	4,310	126	3,935	138	4,201	113	4,057
February 12	166	4,476	119	4,054	136	4,337	115	4,172
February 19	154	4,630	120	4,174	134	4,471	105	4,277
February 26	164	4,794	114	4,288	129	4,600	95	4,372
March 5	155	4,949	109	4,397	138	4,738	106	4,478
March 12	156	5,105	109	4,506	138	4,876	107	4,585
March 19	153	5,258	108	4,614	132	5,008	105	4,690
March 26	154	5,412	109	4,723	135	5,143	101	4,791
April 2	119	5,531	102	4,825	112	5,255	101	4,892
April 9	117	5,648	101	4,926	112	5,367	101	4,993
April 16	120	5,768	102	5,028	104	5,471	96	5,089
April 23	122	5,890	102	5,130	110	5,581	90	5,179
April 30	112	6,002	101	5,231	108	5,689	81	5,260
May 7	116	6,118	83	5,314	115	5,804	69	5,329
May 14	116	6,234	89	5,403	107	5,911	71	5,400
May 21	121	6,355	86	5,489	116	6,027	64	5,464
May 28	93	6,448	63	5,552	103	6,130	71	5,535
June 4	101	6,549	87	5,639	93	6,223	49	5,584
June 11	97	6,646	70	5,709	81	6,304	58	5,642
June 18	98	6,744	69	5,778	87	6,391	45	5,687
June 25	108	6,852	72	5,850	81	6,472	30	5,717
July 2	49	6,901	57	5,907	68	6,540	35	5,752
July 9	87	6,988	70	5,977	64	6,604	26	5,778
July 16	88	7,076	67	6,044	58	6,662	57	5,835
July 23	89	7,165	65	6,109	64	6,726	46	5,881
July 30 ¹	30	7,195	35	6,144	50	6,776	46	5,927

¹ Figures given under heading "Week" are for three days in 1926-27, five days in 1927-28, six days in 1928-29, and seven days in 1929-30. Figures under heading "Season" are cumulatives to July 31 in all seasons.

Movement of American Crop into Sight during Past Four Seasons

[In thousands of running bales. Linters not included]

Source: New York Cotton Exchange

WEEK ENDING —	1926-27		1927-28		1928-29		1929-30	
	Week	Season	Week	Season	Week	Season	Week	Season
August 7	71	111	127	216	51	56	76	80
August 14	108	219	144	360	53	109	100	180
August 21	143	362	191	551	78	187	135	315
August 28	240	602	316	867	158	345	238	553
September 4	293	895	393	1,260	276	621	356	909
September 11	465	1,360	471	1,731	344	965	449	1,358
September 18	600	1,960	551	2,282	499	1,464	526	1,884
September 25	853	2,813	658	2,940	626	2,090	639	2,523
October 2	911	3,724	701	3,641	820	2,910	766	3,289
October 9	901	4,625	648	4,289	846	3,756	943	4,232
October 16	863	5,488	655	4,944	924	4,680	996	5,228
October 23	797	6,285	709	5,653	887	5,567	919	6,147
October 30	782	7,067	680	6,333	832	6,399	886	7,033
November 6	762	7,829	615	6,948	611	7,010	657	7,690
November 13	771	8,600	520	7,468	611	7,621	615	8,305
November 20	713	9,313	424	7,892	615	8,236	479	8,784
November 27	705	10,018	450	8,342	621	8,857	439	9,223
December 4	644	10,662	391	8,733	549	9,406	425	9,648
December 11	594	11,256	336	9,069	491	9,897	461	10,109
December 18	515	11,771	310	9,379	422	10,319	458	10,567
December 25	431	12,202	234	9,613	374	10,693	276	10,843
January 1	345	12,547	197	9,810	309	11,002	238	11,081
January 8	362	12,909	189	9,999	254	11,256	251	11,332
January 15	400	13,309	190	10,189	236	11,492	198	11,530
January 22	352	13,661	197	10,386	255	11,747	187	11,717
January 29	292	13,953	189	10,575	251	11,998	164	11,881
February 5	298	14,251	167	10,742	207	12,205	132	12,013
February 12	288	14,539	178	10,920	159	12,364	123	12,136
February 19	320	14,859	148	11,068	177	12,541	137	12,273
February 26	287	15,146	121	11,189	177	12,718	113	12,386
March 5	301	15,447	121	11,310	144	12,862	109	12,495
March 12	281	15,728	150	11,460	192	13,054	104	12,599
March 19	273	16,001	167	11,627	177	13,231	117	12,716
March 26	250	16,251	148	11,775	164	13,395	101	12,817
April 2	176	16,427	123	11,898	106	13,501	88	12,905
April 9	193	16,620	133	12,031	102	13,603	122	13,027
April 16	172	16,792	124	12,155	104	13,707	91	13,118
April 23	152	16,944	156	12,311	124	13,831	84	13,202
April 30	164	17,108	132	12,443	54	13,885	86	13,288
May 7	143	17,251	135	12,578	82	13,967	77	13,365
May 14	126	17,377	129	12,707	89	14,056	98	13,463
May 21	120	17,497	111	12,818	87	14,143	103	13,566
May 28	85	17,582	78	12,896	85	14,228	78	13,644
June 4	91	17,673	76	12,972	57	14,285	49	13,693
June 11	85	17,758	51	13,023	48	14,333	62	13,755
June 18	75	17,833	52	13,075	54	14,387	45	13,800
June 25	88	17,921	61	13,136	48	14,435	30	13,830
July 2	28	17,949	57	13,193	26	14,461	22	13,852
July 9	60	18,009	63	13,256	55	14,516	18	13,870
July 16	79	18,088	75	13,331	39	14,555	43	13,913
July 23	77	18,165	30	13,361	49	14,604	30	13,943
July 30 ¹	22	18,187	43	13,404	58	14,662	52	13,995

¹ Figures given under heading "Week" are for three days in 1926-27, five days in 1927-28, six days in 1928-29, and seven days in 1929-30. Figures under heading "Season" are cumulatives to July 31 in all seasons.

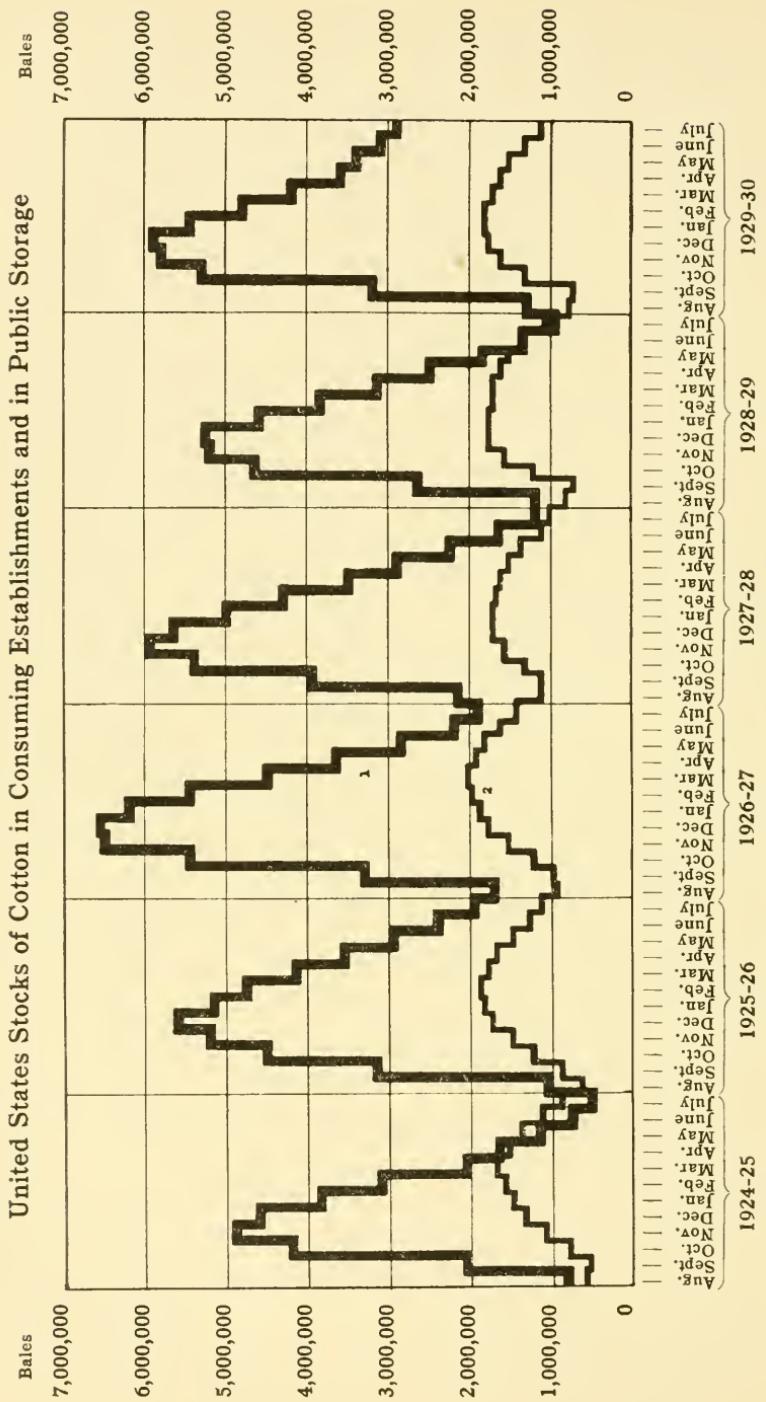
Percentage of Cotton due to Boll Weevil, Cotton Years, 1917-31

[Expressed in percentage of a normal or full yield per acre]

Source: United States Department of Agriculture

STATE	1917-18	1918-19	1919-20	1920-21	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28	1928-29	1929-30	1930-31
North Carolina	—	—	—	—	3.58	12.27	12.97	7.49	8.04	3.24	16.0	12.0	21.0	17.0
South Carolina	.01	.07	3.00	13.26	31.48	40.48	26.95	15.93	11.71	4.27	27.0	15.0	18.0	13.0
Georgia	.9.06	10.73	19.36	30.56	45.12	44.28	36.62	15.11	6.68	5.09	18.0	14.0	15.0	7.0
Florida	.27.07	23.85	40.46	32.10	27.62	32.50	32.53	27.73	6.43	—	9.0	9.0	14.0	14.0
Tennessee	.1.74	.37	.17	.57	7.21	8.84	20.75	2.38	.31	1.57	3.0	2.0	2.0	1.0
Virginia	—	—	—	—	—	—	—	—	—	—	2.0	10.0	4.0	3.0
Alabama	.28.88	12.14	28.77	36.03	32.39	25.51	32.52	11.77	4.88	3.16	15.0	12.0	14.0	4.0
Mississippi	.22.22	10.41	19.56	32.25	30.38	27.65	30.82	7.38	2.99	6.26	16.0	14.0	16.0	3.0
Louisiana	.11.89	9.79	24.84	25.99	34.80	24.61	23.25	4.59	9.52	8.52	12.0	18.0	17.0	3.0
Texas	.7.26	4.43	13.96	19.90	33.66	16.25	9.96	7.63	2.35	11.09	20.0	12.0	13.0	4.0
Oklahoma	.4.35	1.30	1.48	8.81	41.36	25.67	19.33	3.93	1.83	8.49	31.0	26.0	11.0	3.0
Arkansas	.8.96	3.14	4.79	9.41	21.84	18.15	15.87	3.70	1.80	2.94	11.0	15.0	6.0	2.0
United States average ¹	9.34	5.83	13.20	19.95	30.98	24.17	19.55	8.01	3.87	7.04	18.5	14.1	13.3	5.0

¹ Average is weighted and includes cotton States in which there was no damage by boll weevil



The above chart is based on the table on the following page.

1 = In public storage and at compresses
2 = In consuming establishments

United States Stocks of Cotton in Consuming Establishments, in Public Storage and at Compresses

[American cotton is counted in running bales; foreign cotton, in equivalent 500-pound bales]

Linters are not included

The table below does not include cotton in transit in private storage or on plantations. It embraces merely the cotton in consuming establishments, in public storage and at compresses, as compiled monthly by the United States Bureau of the Census.

At End of—	1924-25		1925-26		1926-27		1927-28		1928-29		1929-30	
	In Public Storage and at Compresses		In Public Consuming Establishments		In Public Storage and at Compresses		In Public Consuming Establishments		In Public Storage and at Compresses		In Public Consuming Establishments	
	Consuming Establishments	In Public Storage and at Compresses	Consuming Establishments	In Public Storage and at Compresses	Consuming Establishments	In Public Storage and at Compresses	Consuming Establishments	In Public Storage and at Compresses	Consuming Establishments	In Public Storage and at Compresses	Consuming Establishments	In Public Storage and at Compresses
August	552,669	810,913	680,527	1,040,178	916,786	1,715,371	1,120,784	2,172,945	781,470	1,188,070	800,989	1,382,226
September	514,537	2,072,956	866,011	3,137,620	936,441	3,287,285	1,116,093	3,964,615	720,408	2,637,683	790,772	3,208,546
October	730,636	4,224,854	1,216,437	4,499,382	1,213,189	5,471,533	1,323,703	5,419,193	1,195,770	4,632,109	1,355,998	5,296,077
November	1,046,612	4,914,219	1,456,166	5,206,283	1,493,013	6,516,502	1,551,776	5,973,958	1,566,542	5,224,418	1,655,071	5,812,658
December	1,319,265	4,623,863	1,717,972	5,608,066	1,763,739	6,548,257	1,708,538	5,655,574	1,733,930	5,236,722	1,841,079	5,898,596
January	1,433,814	3,863,475	1,811,392	5,175,834	1,852,074	6,158,508	1,708,646	5,013,611	1,768,165	4,615,312	1,825,793	5,404,761
February	1,546,210	3,075,140	1,881,296	4,744,090	1,931,794	5,453,313	1,688,649	4,313,843	1,744,229	3,862,223	1,806,040	4,858,243
March	1,633,753	2,028,331	1,747,636	4,162,628	1,975,694	4,482,905	1,582,917	3,511,590	1,729,998	3,176,623	1,758,171	4,198,077
April	1,514,514	1,666,147	1,639,174	3,530,811	1,891,137	3,669,737	1,507,599	2,919,278	1,606,412	2,524,621	1,662,215	3,637,046
May	1,348,394	1,134,920	1,449,932	2,964,824	1,792,261	2,866,937	1,330,880	2,258,763	1,475,837	1,845,771	1,327,853	3,379,414
June	1,123,813	759,945	1,247,796	2,407,816	1,594,475	2,181,509	1,160,888	1,646,807	1,287,740	1,376,704	1,356,664	3,105,226
July	866,239	514,196	1,096,521	1,936,662	1,404,815	1,822,552	1,011,721	1,189,751	1,052,128	984,860	1,183,007	2,877,422

United States Stocks of Cotton and Linters

[American cotton in running bales, counting round as half bales; foreign cotton in equivalent 500-pound bales]

Source: United States Bureau of the Census

Season Ending—	Total Cotton Exclusive of Linters		Linters		Sea Island		Egyptian	
	In Consuming Establishments		In Consuming Establishments		In Consuming Establishments		In Consuming Establishments	
	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses
July, 1915	1,401,185	1,784,919	198,905	89,881	24,919	4,678	96,828	25,123
July, 1916	1,632,245	1,107,464	100,441	113,106	27,454	10,870	123,406	59,202
July, 1917	1,501,916	888,257	112,972	230,687	36,482	19,912	75,250	42,662
July, 1918	1,465,223	1,734,965	138,108	236,809	20,000	36,494	35,917	31,363
July, 1919	1,303,418	2,208,367	266,539	227,355	19,487	31,538	36,858	15,899
July, 1920	1,358,147	2,055,015	201,218	382,432	14,654	9,791	117,300	102,799
July, 1921	1,111,147	3,723,213	234,926	234,926	4,489	6,126	68,914	59,148
July, 1922	1,218,388	1,488,165	138,523	54,587	3,787	3,303	62,863	53,427
July, 1923	1,093,618	938,903	127,139	36,000	2,947	3,909	86,508	51,316
July, 1924	721,589	673,925	100,632	54,026	2,465	2,038	51,655	12,586
July, 1925	865,842	514,006	128,916	28,698	2,703	501	50,475	11,526
July, 1926	1,096,647	1,404,815	143,630	52,899	—	—	64,437	28,510
July, 1927	1,011,721	1,822,552	198,745	52,819	—	—	58,882	13,287
July, 1928	1,052,128	1,189,751	159,409	44,569	—	—	47,849	17,507
July, 1929	1,183,007	984,860	187,330	58,423	—	—	89,819	39,341
July, 1930	—	2,877,422	238,981	87,071	—	—	96,507	48,951
At end of—								
August, 1929	800,989	1,382,226	156,290	42,658	—	—	91,687	34,811
September, 1929	790,772	3,208,546	137,439	47,930	—	—	90,835	32,534
October, 1929	1,355,998	5,296,077	145,517	54,990	—	—	79,346	28,574
November, 1929	1,655,071	5,812,658	168,542	68,657	—	—	72,207	25,541
December, 1929	1,841,079	5,898,596	183,983	84,306	—	—	72,250	32,324
January, 1930	1,825,793	5,404,761	197,508	94,170	—	—	70,674	40,302
February, 1930	1,806,040	4,858,243	223,715	105,912	—	—	66,244	36,623
March, 1930	1,758,171	4,198,077	233,940	109,444	—	—	66,096	34,316
April, 1930	1,662,215	3,637,046	239,485	103,066	—	—	67,158	29,871
May, 1930	1,527,853	3,379,414	237,690	94,150	—	—	89,754	55,857
June, 1930	1,356,664	3,105,226	231,550	91,989	—	—	101,334	53,867
July, 1930	1,183,007	2,877,422	238,981	87,071	—	—	96,507	48,951

Indian Cotton Production, Acreage, and Yield per Acre

These statistics embrace all cotton produced in India, including that used in house manufacture as well as that taken by factories or exported.

[In bales of 400 pounds each]

[Cotton years]

Source: Department of Commercial Intelligence and Statistics, India

PROVINCES AND STATES	PRODUCTION (IN THOUSANDS)						ACREAGE (IN THOUSANDS)						YIELD PER ACRE (IN POUNDS)					
	1926-27	1927-28	1928-29	1929-30	1930-31 ¹	1926-27	1927-28	1928-29	1929-30	1930-31 ¹	1924-25	1925-26	1926-27	1927-28	1928-29	1929-30	1930-31 ¹	
Bombay ²	1,267	1,431	1,358	1,090	1,205	6,768	6,912	7,367	6,588	5,990	82	77	75	83	74	66	80	
Central Provinces and Berar	977	1,235	1,224	1,143	1,062	4,864	4,796	5,078	5,175	4,787	81	73	80	103	96	88	89	
Madras ²	388	447	519	512	418	2,231	2,123	2,394	2,467	2,075	78	78	70	84	87	83	81	
Punjab ²	599	602	619	799	766	2,803	2,067	2,825	2,356	2,491	141	119	85	116	87	126	123	
United Provinces ³	259	199	255	342	321	809	643	715	932	843	105	110	128	124	143	147	152	
Burma	73	67	56	67	87	447	326	318	335	358	86	72	65	82	70	80	97	
Bengal ²	25	20	18	21	19	77	78	79	77	125	147	130	103	91	108	99		
Bihar and Orissa	14	14	13	14	13	77	77	78	69	69	71	73	71	73	72	75	81	
North-West Frontier	5	2	4	3	30	11	17	17	13	82	87	67	73	94	94	92		
Assam	15	15	17	15	46	45	44	44	41	133	111	130	133	133	133	136	146	
Delhi	1	1	1	1	1	4	2	2	3	4	100	67	100	200	200	133	100	
Ajmer-Merwara	15	14	21	11	11	43	42	44	34	31	133	126	140	133	191	129	142	
Hyderabad	808	931	994	446	382	3,267	3,631	4,002	3,351	3,524	105	112	99	105	99	51	43	
Central India	223	234	262	202	206	1,297	1,263	1,247	1,388	1,296	71	79	69	74	78	58	64	
Beroda	124	124	68	127	140	761	806	793	771	731	104	87	65	62	34	66	77	
Rajputana	78	97	123	67	73	404	422	476	507	510	87	91	77	92	103	53	57	
Mysore	25	25	23	9	10	97	81	76	69	72	122	120	103	123	121	52	56	
Gwalior	107	115	107	89	103	649	585	645	633	619	54	71	66	79	66	56	67	
Total	5,003	5,563	5,673	4,958	4,836	24,676	23,910	26,256	25,177	23,531	91	88	81	94	86	79	82	

¹ February, 1931, estimate.

² Includes Indian Stats.

Carry-over of Cotton

The term "carry-over" has several meanings. It may refer (1) simply to cotton held in the United States, or (2) American cotton held anywhere in the world, or (3) all kinds of cotton held anywhere in the world. Statistics of carry-over as issued by trade authorities differ widely from each other each year, not only because of the various meanings of the term, as just stated, but also because some authorities count the carry-over in running bales, disregarding the fact that Egyptian bales, for example, weigh approximately 750 pounds and Indian bales only 400, while others compute the quantities of foreign cottons in equivalent 500-pound bales, and some authorities include American linters while others do not.

Following are statistics of the amount of cotton carried over from each season for several years past, as computed, on different bases, by leading authorities.

World Carry-over of American Cotton

The table below was compiled by Henry G. Hester, Secretary of the New Orleans Cotton Exchange. It includes all American cotton held in the American cotton belt,—*i.e.*, at southern mills, at counted and uncounted interior towns, and on plantations,—stocks at northern mills and at the ports of the United States, and stocks at European ports and at European mills. This embraces practically all American cotton held anywhere in the world. The only stocks not included in this table are those in Japan and scattering stocks in the less important manufacturing countries where some American cotton may be found, such as Canada and Mexico. The cotton is counted in running bales, round bales being counted as half bales.

DATE	Including Linters	Exclusive of Linters
July 31, 1915	7,701,000	7,551,000
July 31, 1916	5,105,000	4,742,000
July 31, 1917	4,305,000	3,688,000
July 31, 1918	4,422,000	4,018,000
July 31, 1919	6,909,000	6,094,000
July 31, 1920	6,216,000	5,216,000
July 31, 1921	9,364,000	8,699,000
July 31, 1922	4,879,000	4,547,000
July 31, 1923	2,573,000	2,396,000
July 31, 1924	2,319,000	2,089,000
July 31, 1925	2,991,000	2,826,000
July 31, 1926	5,639,000	5,378,000
July 31, 1927	7,477,000 ¹	7,191,000 ¹
July 31, 1928	5,472,000 ¹	5,252,000 ¹
July 31, 1929	4,679,000	4,395,000
July 31, 1930	6,344,000	5,939,000

¹ Revised to include approximate foreign mill stocks other than Europe and Japan.

Mid-Season and Carry-over Stocks of All Cottons in the World

[American cotton in running bales; foreign cotton in equivalent bales of 478 pounds net weight; American linters not included]

Source: Garside Cotton Service

	Mid-Season Stocks of All Cottons				Carry-over of All Cottons					
	Jan. 31, 1926	Jan. 31, 1927	Jan. 31, 1928	Jan. 31, 1929	Jan. 31, 1930	July 31, 1926	July 31, 1927	July 31, 1928	July 31, 1929	July 31, 1930
In public storage, etc.:										
Farms, etc., in United States	2,252,000	3,487,000	1,782,000	1,645,000	1,598,000	510,000	535,000	335,000	275,000	470,000
Public storage in United States	5,176,000	6,155,000	5,014,000	4,615,000	5,405,000	1,929,000	1,820,000	1,190,000	986,000	2,877,000
Unmarketed Foreign Crops ¹	5,614,000	5,011,000	5,696,000	5,800,000	6,212,000	309,000	479,000	312,000	327,000	—
Alexandria	453,000	654,000	637,000	701,000	690,000	282,000	293,000	681,000	569,000	724,000
Bombay	377,000	412,000	487,000	555,000	757,000	369,000	445,000	383,000	380,000	621,000
Afloat to Europe	589,000	893,000	633,000	664,000	643,000	1,225,000	2,273,000	1,557,000	1,393,000	310,000
Ports in Europe	1,613,000	2,574,000	2,127,000	2,314,000	2,139,000	783,000	788,000 ²	880,000 ³	642,000 ³	1,295,000
Elsewhere	749,000 ²	1,029,000 ²	1,016,000 ²	988,000 ²	783,000	788,000 ³	880,000 ³	642,000 ³	666,000 ³	603,000 ³
Total	16,823,000	20,215,000	17,392,000	17,282,000	18,227,000	5,412,000	6,725,000	5,100,000	4,596,000	6,891,000
In Mills:										
United States	1,814,000	1,853,000	1,709,000	1,768,000	1,826,000	1,096,000	1,404,000	1,013,000	1,052,000	1,183,000
Great Britain	285,000	249,000	218,000	219,000	237,000	250,000	261,000	209,000	186,000	186,000
Continent	1,095,000	1,099,000	1,308,000	1,357,000	1,312,000	1,357,000	1,403,000	1,296,000	1,331,000	1,358,000
Elsewhere	1,090,000	1,097,000	1,227,000	1,421,000	1,361,000	1,537,000	1,727,000	1,718,000	1,782,000	1,567,000
Total	4,284,000	4,298,000	4,462,000	4,765,000	4,736,000	3,868,000	4,795,000	4,236,000	4,351,000	4,294,000
Grand Total	21,107,000	24,513,000	21,854,000	22,047,000	22,963,000	9,280,000	11,520,000	9,336,000	8,947,000	11,185,000

¹ Includes stocks in interior of India and Egypt, and estimated unpicked or unmarketed portions of crops of India, Russia, Brazil, China, and minor cotton-producing countries.

² Includes cotton afloat to and in warehouses in the Orient.

³ Includes cotton afloat to the Orient, in warehouses and in transit in the Orient and in transit in Europe.

Supply and Distribution of Cotton in the United States for the Twelve Months ending July 31, 1930

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton and domestic cotton, reimported, in equivalent 500-pound bales. Linters are not included]

Source: United States Bureau of the Census

SUPPLY		Bales
On hand August 1, 1929, total		2,311,988
In consuming establishments, total		1,052,128
In cotton-growing States	691,083	
In all other States	361,045	
In public storage and at compresses		984,860
In cotton-growing States	743,671	
In all other States	241,189	
Elsewhere (partially estimated) ¹		275,000
Imports foreign cotton, total		378,107
Reexported		9,983
Net imports		368,124
Ginnings, crop of 1929, total	14,547,791	
Prior to August 1, 1929	86,974	
During cotton year 1929-30		14,460,817
Ginnings, crop of 1930 prior to August 1		78,288
Ginnings during year ending July 31, 1930		14,539,005
Aggregate supply		17,219,117
DISTRIBUTION		
Exports domestic cotton, total		6,689,796
Reimported		14,849
Net exports		6,674,947
Consumed, total		6,105,840
In cotton-growing States	4,749,179	
In all other States	1,356,661	
Destroyed		25,000
On hand July 31, 1930, total		4,530,429
In consuming establishments, total		1,183,007
In cotton-growing States	792,190	
In all other States	390,817	
In public storage and at compresses		2,877,422
In cotton-growing States	2,515,266	
In all other States	362,156	
Elsewhere (partially estimated) ¹		470,000
Aggregate distribution		17,336,216
Excess of distribution over supply ²		117,099

¹ Includes cotton for export on shipboard but not cleared; cotton coastwise; cotton in transit to ports, interior towns, and mills; cotton on farms, etc.

² Due principally to the inclusion, in all distribution items, of the "city crop," which consists of rebaled samples and pickings from cotton damaged by fire and weather.

Quantity of the Several Kinds of Raw Cotton consumed and of Stocks held in Consuming Establishments, 1927 to 1930

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. Linters are not included]

United States Bureau of the Census

Kind and Locality	Raw Cotton Consumed During Year Ending July 31 (Bales)				Stocks Held in Consuming Establishments July 31 (Bales)			
	1927	1928	1929	1930	1927	1928	1929	1930
United States . . .	7,189,585	6,834,063	7,091,065	6,105,840	1,404,815	1,011,721	1,652,128	1,183,007
Domestic:								
Upland . . .	6,859,229	6,518,558	6,763,949	5,790,404	1,319,284	930,111	925,058	1,041,821
Sea-island . . .	1,226	1,251	795	372	1,694	946	707	763
American-Egyptian . . .	19,669	15,137	13,455	12,572	4,237	3,596	6,546	5,323
Foreign:								
Egyptian . . .	239,768	217,584	232,392	205,765	58,882	47,849	89,819	96,507
Peruvian . . .	14,535	15,273	10,881	7,747	3,765	2,323	1,663	2,779
Chinese . . .	32,043	43,972	41,035	39,120	12,435	21,927	16,818	18,391
British Indian . . .	21,985	21,455	27,640	48,960	3,445	4,674	11,375	17,082
Other . . .	1,130	833	918	900	1,073	295	142	341
Cotton-growing States . . .	5,193,500	5,113,842	5,392,265	4,749,179	882,427	618,760	691,083	792,190
Domestic:								
Upland . . .	5,129,978	5,033,710	5,321,943	4,662,033	872,080	603,431	657,685	763,623
Sea-island . . .	162	89	128	33	169	116	8	1
American-Egyptian . . .	1,834	1,143	1,120	759	257	375	368	640
Foreign:								
Egyptian . . .	42,911	51,921	37,271	36,474	5,206	4,121	20,534	14,206
Peruvian . . .	2,019	1,860	1,134	712	100	241	6	108
Chinese . . .	10,464	19,329	17,490	18,211	3,733	8,712	7,663	7,438
British Indian . . .	6,088	5,790	13,021	30,587	882	1,764	4,808	5,996
Other . . .	44	—	158	370	—	—	11	178
All other States . . .	1,996,085	1,720,221	1,698,800	1,356,661	522,388	392,961	361,045	390,817
Domestic:								
Upland . . .	1,729,251	1,484,848	1,442,006	1,128,371	447,204	326,680	267,373	278,198
Sea-island . . .	1,064	1,162	667	339	1,525	830	699	762
American-Egyptian . . .	17,835	13,994	12,335	11,813	3,980	3,221	6,178	4,683
Foreign:								
Egyptian . . .	196,857	165,663	195,121	169,291	53,676	43,728	69,285	82,301
Peruvian . . .	12,516	13,413	9,747	7,035	3,665	2,082	1,657	2,671
Chinese . . .	21,579	24,643	23,545	20,909	8,702	13,215	9,155	10,953
British Indian . . .	15,897	15,665	14,619	18,373	2,563	2,910	5,567	11,086
Other . . .	1,086	833	760	530	1,073	295	131	163

World Supply and Consumption of American Cotton

The tables below, compiled by Henry G. Hester, Secretary of the New Orleans Cotton Exchange, show the world supply and consumption of American cotton, inclusive of linters, season by season since 1916-17. In considering these statistics it should be borne in mind that they relate only to American cotton. They do not include Egyptian, Indian or other foreign growths. The figures of supply at the beginning of each season include mill stocks in the United States and Europe, stocks at counted and uncounted interior towns and on plantations in this country and stocks at ports in this country and Europe. The statistics on consumption include consumption in this country and abroad. These statistics are in running bales.

Supply and Consumption, including Linters

COTTON SEASON AUG. 1 TO JULY 31	Supply at Beginning of Season	Crop	Total Supply for Season	Consumption
1916-17	5,105,000	12,966,000	18,071,000	13,892,000
1917-18	4,305,000	12,424,000	16,729,000	12,282,000
1918-19	4,422,000	13,070,000	17,492,000	10,535,000
1919-20	6,909,000	12,000,000	18,909,000	12,670,000
1920-21	6,216,000	13,750,000	19,966,000	10,330,000
1921-22	9,364,000	8,442,000	17,806,000	12,829,000
1922-23	4,879,000	10,424,000	15,303,000	12,631,000
1923-24	2,573,000	10,985,000	13,558,000	11,241,000
1924-25	2,319,000	14,808,000	17,127,000	14,136,000
1925-26	3,268,000 ¹	17,541,000	20,809,000	15,170,000
1926-27	5,639,000	19,215,000	24,854,000	17,616,000
1927-28	7,298,000 ²	13,906,000	21,204,000	15,906,000
1928-29	5,472,000 ²	15,553,000	21,025,000	16,346,000
1929-30	4,679,000	15,764,000	20,443,000	14,099,000
1930-31	6,344,000	—	—	—

¹ Includes stocks at Japan and 10,000 bales at European mills, 1926.

² Includes correction other Foreign Mill Stocks other than European and Japan.

Stocks of American Cotton at United States Ports July 31

Source: New Orleans Cotton Exchange

	1926	1927	1928	1929	1930
Galveston	149,926	146,029	83,586	75,595	185,252
Houston	226,636	179,825	163,659	152,044	515,271
New Orleans	152,265	259,603	149,961	46,482	326,176
Mobile	3,389	4,109	3,635	10,858	9,881
Savannah	27,073	43,983	17,362	21,119	103,815
Charleston	12,698	20,878	16,211	15,930	63,555
Wilmington	7,095	4,336	11,874	3,662	4,398
Norfolk	40,000	32,000	28,200	27,100	49,200
Baltimore	500	500	500	500	500
New York	56,883	213,071	58,642	141,154	239,215
Philadelphia	4,224	5,159	4,432	4,350	5,176
Boston	4,252	2,289	3,300	2,091	6,100
Pacific ports	—	4,501	1,912	1,008	—
Pensacola	508	431	71	114	142
Los Angeles	—	—	4,286	400	6,953
Jacksonville	371	585	613	674	867
Texas City	3,141	6,121	3,150	1,265	3,170
Corpus Christi	—	—	35,324	30,464	28,037
Total	688,961	923,420	586,718	534,810	1,547,708

Consumption of Cotton, per Thousand Spindles, by Countries

[In running bales for cotton years]

Source: International Federation of Master Cotton Spinners' and Manufacturers' Associations

COUNTRIES	1924-25	1925-26	1926-27	1927-28	1928-29	1929-30
World	144.3	151.0	157.2	155.0	157.6	158.7
Great Britain	56.6	53.2	51.6	50.8	50.1	43.7
France	119.0	124.3	123.8	121.7	124.3	118.4
Germany	127.4	110.4	136.2	142.8	122.5	117.5
Italy	210.0	216.4	185.9	185.4	200.0	188.2
Czechoslovakia	139.4	134.5	139.4	149.7	134.7	126.8
Spain	194.1	166.3	207.1	218.9	215.5	219.7
Belgium	170.5	191.7	193.4	209.5	209.8	211.5
Switzerland	71.1	74.5	71.0	75.3	69.8	69.5
Poland	178.3	147.0	229.1	229.8	161.2	150.7
Holland	166.4	147.8	162.3	167.9	163.7	177.0
Sweden	149.6	161.0	156.2	179.7	155.0	156.3
Portugal	149.1	168.9	143.1	173.0	173.0	182.9
Finland	110.6	154.1	150.1	165.2	129.8	114.5
Denmark	236.7	223.4	218.7	221.0	222.2	282.5
Norway	172.6	109.0	100.0	142.8	116.6	150.0
India	287.0	242.5	298.2	233.8	229.5	250.5
Japan	464.6	511.2	455.8	410.3	423.5	438.3
United States	161.6	176.5	192.5	188.2	201.8	176.3
Canada	122.0	180.4	174.3	171.6	183.9	155.9
Mexico	237.1	268.1	220.0	225.1	218.4	282.9
Brazil	273.3	322.6	172.6	211.6	171.7	149.4

**Calculated Total World's Cotton Mill Consumption for the Half Year
Basis of Spinners' Returns made to**

COUNTRIES		IN THOUSANDS OF ACTUAL BALES (REGARDLESS OF WEIGHT)							
		AMERICAN				EAST INDIAN			
		HALF YEAR ENDING				HALF YEAR ENDING			
		July 31, 1928	July 31, 1929	Jan. 31, 1930	July 31, 1930	July 31, 1928	July 31, 1929	Jan. 31, 1930	July 31, 1930
1	Europe:								
1	Great Britain . . .	922	939	880	594	74	91	100	88
2	Germany . . .	599	474	468	455	117	130	144	127
3	France . . .	422	405	380	348	102	112	100	124
4	Russia . . .	117	73	231	52	—	—	52	61
5	Italy . . .	365	373	355	309	98	114	133	128
6	Czechoslovakia . . .	197	181	171	150	39	49	56	53
7	Belgium . . .	102	99	93	87	83	85	89	91
8	Spain . . .	163	135	130	122	30	37	46	46
9	Poland . . .	145	87	98	86	12	9	12	12
10	Switzerland . . .	29	26	24	22	4	5	5	5
11	Holland . . .	73	75	76	76	18	19	22	22
12	Austria . . .	58	51	39	35	16	19	20	15
13	Sweden . . .	53	45	48	46	1	1	1	1
14	Portugal . . .	22	35	28	26	—	—	—	2
15	Finland . . .	20	16	16	14	—	—	—	—
16	Hungary ¹ . . .	10	15	19	22	—	5	5	3
17	Denmark . . .	4	11	10	10	—	—	—	—
18	Norway . . .	—	4	5	4	—	—	—	—
	Europe total . . .	3,301	3,044	3,071	2,458	594	676	785	778
	Asia:								
1	India . . .	21	25	25	18	840	958	1,087	1,156
2	Japan . . .	506	578	573	519	565	751	870	827
3	China . . .	146	158	130	162	200	180	199	264
	Asia total . . .	673	761	728	699	1,605	1,889	2,156	2,247
	America:								
1	United States . . .	3,070	3,483	3,157	2,654	12	25	31	30
2	Canada . . .	101	115	93	96	—	—	—	—
3	Mexico . . .	—	—	—	—	—	—	—	—
4	Brazil . . .	—	—	—	—	—	—	—	—
	America total . . .	3,171	3,598	3,250	2,750	12	25	31	30
	Sundries . . .	36	60	34	33	9	14	13	47
	Half year's total . . .	7,181	7,463	7,083	5,940	2,220	2,604	2,985	3,102

¹ Formerly included in Sundries

ending 31st July, 1930, with Previous Figures for Comparison, on the International Cotton Federation

IN THOUSANDS OF ACTUAL BALES
(REGARDLESS OF WEIGHT)

EGYPTIAN				SUNDRIES				TOTAL			
HALF YEAR ENDING				HALF YEAR ENDING				HALF YEAR ENDING			
July 31, 1928	July 31, 1929	Jan. 31, 1930	July 31, 1930	July 31, 1928	July 31, 1929	Jan. 31, 1930	July 31, 1930	July 31, 1928	July 31, 1929	Jan. 31, 1930	July 31, 1930
186	174	167	134	201	156	268	234	1,383	1,360	1,415	1,050
29	34	38	40	16	16	26	25	761	654	676	647
46	59	65	53	35	38	44	57	605	614	589	582
34	23	27	25	834	998	816	845	985	1,094	1,126	983
24	28	30	22	12	9	15	9	499	524	533	468
12	12	11	7	4	2	6	7	252	244	244	217
2	3	4	3	37	20	53	41	224	207	239	222
10	12	14	19	5	9	18	17	208	193	208	204
3	7	4	5	5	2	4	4	165	105	118	107
24	20	21	21	1	1	2	1	58	52	52	49
—	—	—	—	1	2	5	5	92	96	103	103
2	2	2	2	3	1	2	2	79	73	63	54
—	—	—	—	1	—	—	—	55	46	50	48
1	—	1	1	12	20	20	16	35	55	48	44
—	—	—	—	—	—	—	—	20	16	16	14
—	—	—	—	—	1	1	2	10	20	24	27
—	—	—	—	—	—	—	1	4	12	11	17
—	—	—	—	—	—	—	—	—	4	5	4
373	374	384	332	1,167	1,275	1,280	1,266	5,435	5,369	5,520	4,834
1	2	4	9	24	33	48	72	886	1,018	1,164	1,255
20	21	22	20	128	75	79	87	1,219	1,425	1,544	1,453
—	—	1	2	901	675	763	776	1,247	1,013	1,093	1,204
21	23	27	31	1,053	783	890	935	3,352	3,456	3,801	3,912
64	80	76	61	34	27	25	26	3,180	3,615	3,289	2,771
2	7	7	4	—	—	—	—	103	122	100	100
1	—	—	—	86	81	126	89	87	81	126	89
—	—	—	—	257	221	234	180	257	221	234	180
67	87	83	65	377	329	385	295	3,627	4,039	3,749	3,140
6	8	8	7	88	68	77	34	139	150	132	121
467	492	502	435	2,685	2,455	2,632	2,530	12,553	13,014	13,202	12,007

Calculated Total World's Cotton Mill Stocks on July 31, 1930, with
to the International

COUNTRIES	IN THOUSANDS OF ACTUAL BALES (REGARDLESS OF WEIGHT)							
	AMERICAN				EAST INDIAN			
	HALF YEAR ENDING				HALF YEAR ENDING			
	July 31, 1928	July 31, 1929	Jan. 31, 1930	July 31, 1930	July 31, 1928	July 31, 1929	Jan. 31, 1930	July 31, 1930
Europe:								
1 Great Britain . . .	79	71	77	57	24	24	24	38
2 Germany . . .	135	108	101	94	48	55	47	59
3 France . . .	144	167	143	150	69	87	64	118
4 Russia . . .	52	45	—	16	—	—	—	7
5 Italy . . .	143	132	161	132	51	65	68	71
6 Czechoslovakia . . .	50	43	39	30	13	17	16	25
7 Belgium . . .	43	41	39	37	45	55	49	56
8 Spain . . .	29	20	22	17	8	9	7	10
9 Poland . . .	23	11	15	12	7	3	3	3
10 Switzerland . . .	16	14	18	11	4	5	4	7
11 Holland . . .	29	30	37	25	14	15	11	17
12 Austria . . .	15	12	10	8	6	5	4	4
13 Sweden . . .	21	19	17	18	1	1	1	1
14 Portugal . . .	4	4	6	7	—	—	—	1
15 Finland . . .	5	6	6	4	—	—	—	—
16 Hungary ¹ . . .	3	3	5	5	—	1	2	1
17 Denmark . . .	1	3	5	4	—	—	—	—
18 Norway . . .	—	1	2	2	—	—	—	—
Europe total . . .	792	730	703	629	290	342	300	418
Asia:								
1 India . . .	63	27	10	14	864	866	612	809
2 Japan ² . . .	206	311	164	175	426	424	188	254
3 China . . .	58	52	45	58	139	105	51	129
Asia total . . .	327	390	219	247	1,429	1,395	851	1,192
America:								
1 United States . . .	931	932	1,735	1,048	5	14	18	21
2 Canada . . .	53	63	79	50	—	—	—	—
3 Mexico . . .	—	—	—	—	—	—	—	—
4 Brazil . . .	—	—	—	—	—	—	—	—
America total . . .	984	995	1,814	1,098	5	14	18	21
Sundries . . .	9	14	6	11	4	10	4	36
Half year's totals . . .	2,112	2,129	2,742	1,985	1,728	1,761	1,173	1,667

¹ Formerly included in Sundries.

² Including Spinners' Port Warehouse Stocks, prior to 1930. Spinner's Port Warehouse Stocks on July 31, 1929, were, viz., 76,547 bales American, 111,602 bales Indian, 2,391 bales Egyptian, and 9,841 bales Sundries.

**Previous Figures for Comparison on Basis of Spinners' Returns made
Cotton Federation**

IN THOUSANDS OF ACTUAL BALES
(REGARDLESS OF WEIGHT)

EGYPTIAN				SUNDRIES				TOTAL			
HALF YEAR ENDING				HALF YEAR ENDING				HALF YEAR ENDING			
July 31, 1928	July 31, 1929	Jan. 31, 1930	July 31, 1930	July 31, 1928	July 31, 1929	Jan. 31, 1930	July 31, 1930	July 31, 1928	July 31, 1929	Jan. 31, 1930	July 31, 1930
43	41	47	35	58	41	88	57	204	177	236	187
13	13	15	13	4	7	6	13	200	183	169	179
19	35	38	32	22	31	31	33	254	320	276	333
11	9	4	35	230	190	200	13	293	244	204	71
9	15	13	9	4	5	6	4	207	217	248	216
4	5	5	4	1	1	3	2	68	66	63	61
1	2	2	1	11	14	15	10	100	112	105	104
4	6	7	7	3	3	4	4	44	38	40	38
1	2	2	3	1	1	1	—	32	17	21	18
10	14	18	12	2	2	1	3	32	35	41	33
—	—	—	—	1	1	2	1	44	46	50	43
1	1	1	1	—	1	—	—	22	19	15	12
—	—	—	1	1	—	—	—	23	20	18	20
—	—	—	—	2	2	6	2	6	6	12	10
—	—	—	—	—	—	—	—	5	6	6	4
—	—	—	—	—	—	—	—	3	4	7	6
—	—	—	—	—	—	—	—	1	3	5	4
—	—	—	—	—	—	—	—	—	1	2	2
116	143	152	153	340	299	363	142	1,538	1,514	1,518	1,342
2	4	3	5	35	39	24	32	964	936	649	860
17	14	12	9	46	34	27	21	695	783	391	459
—	1	2	1	181	168	247	228	378	326	345	416
19	19	17	15	262	241	298	281	2,037	2,045	1,385	1,735
32	60	46	64	25	19	12	23	993	1,025	1,811	1,156
1	2	3	1	—	—	—	—	54	65	82	51
—	—	—	—	45	36	42	26	45	36	42	26
—	—	—	—	62	90	39	43	62	90	39	43
33	62	49	65	132	145	93	92	1,154	1,216	1,974	1,276
2	4	6	4	43	60	38	33	58	88	54	84
170	228	224	237	777	745	792	548	4,787	4,863	4,931	4,437

World's Visible Supply¹
 [In thousands of running bales]
 Source: New York Cotton Exchange

WEEK ENDING—	1926-27		1927-28		1928-29		1929-30	
	All Kinds Inc. Linters	American Excl. Linters	All Kinds Inc. Linters	American Excl. Linters	All Kinds Inc. Linters	American Excl. Linters	All Kinds Inc. Linters	American Excl. Linters
August	1 .	3,672	2,310	5,101	3,690	4,240	2,398	3,905
	8 .	3,572	2,236	4,979	3,599	4,105	2,265	3,826
	15 .	3,526	2,186	4,876	3,520	3,906	2,140	3,725
	22 .	3,398	2,110	4,770	3,445	3,741	1,997	3,658
	29 .	3,357	2,111	4,804	3,536	3,618	1,971	3,662
September	5 .	3,380	2,183	4,844	3,639	3,774	2,070	3,751
	12 .	3,585	2,433	5,075*	3,856	3,845	2,221	3,953
	19 .	3,931	2,785	5,306	4,114	4,034	2,434	4,203
	26 .	4,533	3,332	5,701	4,494	4,402	2,816	4,622
October	3 .	5,102	3,918	6,041	4,873	4,933	3,332	5,093
	10 .	5,614	4,431	6,344	5,172	5,355	3,741	5,588
	17 .	6,077	4,947	6,614	5,476	5,864	4,271	6,166
	24 .	6,511	5,388	6,935	5,804	6,302	4,725	6,644
	31 .	6,978	5,845	7,253	6,099	6,785	5,159	7,082
November	7 .	7,310	6,196	7,420	6,289	6,998	5,375	7,355
	14 .	7,711	6,583	7,607	6,462	7,164	5,528	7,617
	21 .	7,999	6,884	7,690	6,525	7,454	5,770	7,784
	28 .	8,295	7,174	7,809	6,581	7,697	5,982	7,910
December	5 .	8,576	7,402	7,897	6,631	7,906	6,190	8,028
	12 .	8,746	7,565	7,939	6,593	8,057	6,279	8,181
	19 .	8,935	7,674	7,981	6,582	8,135	6,287	8,402
	26 .	9,048	7,774	8,027	6,575	8,321	6,411	8,535
January	2 .	9,139	7,785	7,941	6,463	8,316	6,420	8,589
	9 .	9,257	7,840	7,839	6,328	8,383	6,303	8,632
	16 .	9,399	7,915	7,802	6,229	8,232	6,162	8,642
	23 .	9,413	7,861	7,761	6,110	8,184	6,089	8,629
	30 .	9,350	7,756	7,658	5,983	8,120	5,995	8,598
February	6 .	9,287	7,596	7,521	5,841	8,024	5,596	8,555
	13 .	9,220	7,480	7,469	5,752	7,971	5,750	8,524
	20 .	9,181	7,484	7,267	5,600	7,815	5,597	8,439
	27 .	9,050	7,397	7,145	5,454	7,702	5,481	8,295
March	6 .	8,912	7,302	7,019	5,294	7,525	5,284	8,150
	13 .	8,874	7,235	6,897	5,196	7,442	5,193	8,027
	20 .	8,813	7,190	6,768	5,066	7,352	5,035	7,860
	27 .	8,700	7,107	6,724	5,007	7,243	4,931	7,738
April	3 .	8,574	6,997	6,652	4,880	7,115	4,786	7,525
	10 .	8,437	6,808	6,556	4,734	6,987	4,590	7,425
	17 .	8,329	6,738	6,492	4,602	6,844	4,415	7,357
	24 .	8,116	6,519	6,435	4,481	6,759	4,256	7,218
May	1 .	7,839	6,255	6,323	4,359	6,533	4,064	7,050
	8 .	7,648	6,047	6,288	4,228	6,383	3,900	6,913
	15 .	7,488	5,834	6,209	4,132	6,156	3,705	6,833
	22 .	7,342	5,700	6,061	4,007	5,971	3,537	6,782
June	29 .	7,137	5,494	5,865	3,864	5,664	3,344	6,639
	5 .	6,927	5,301	5,722	3,720	5,431	3,140	6,522
	12 .	6,700	5,045	5,579	3,532	5,239	2,977	6,436
	19 .	6,420	4,785	5,360	3,340	5,062	2,798	6,334
July	26 .	6,174	4,607	5,114	3,163	4,825	2,610	6,227
	3 .	6,001	4,394	4,986	3,045	4,626	2,427	6,043
	10 .	5,811	4,247	4,779	2,843	4,453	2,284	5,884
	17 .	5,666	4,099	4,586	2,710	4,211	2,119	5,693
	24 .	5,347	3,866	4,403	2,552	4,033	1,997	5,514
	31 .	5,290	3,809	4,326	2,520	3,954	1,941	5,410

¹ All kinds include linters. American exclusive of linters.

United States Consumption of Cotton and Linters

[American cotton and linters in running bales. Foreign cotton in equivalent 500-pound bales]

Source: United States Bureau of the Census

SEASON ENDING—	Total Cotton (Including Linters)	Total Cotton (Excluding Linters)	American Cotton (Excluding Linters)	Linters	Foreign Cotton	Egyptian	Sea Island ¹	American Egyptian
August 31, 1914	5,884,733	5,577,408	5,383,099	307,325	194,309	151,091	81,673	3
July 31, 1915	6,009,207	5,567,362	5,375,305	411,845	222,057	181,211	79,394	3
July 31, 1916	7,278,529	6,307,613	6,080,615	880,916	316,995	269,324	82,645	3
July 31, 1917	7,658,207	6,788,505	6,470,244	869,702	318,261	259,160	94,201	3
July 31, 1918	7,685,329	6,566,489	6,382,695	1,118,840	183,794	136,401	85,939	3
July 31, 1919	6,223,837	5,765,936	5,589,820	457,901	176,116	126,087	51,183	3
July 31, 1920	6,762,207	6,419,734	6,002,993	342,473	416,741	323,124	42,971	45,867
July 31, 1921	5,408,979	4,892,672	4,676,891	516,307	215,781	159,196	18,667	16,771
July 31, 1922	6,548,853	5,909,820	5,612,993	639,033	296,827	226,330	8,967	49,359
July 31, 1923	7,312,201	6,666,092	6,322,294	646,109	343,798	262,331	6,267	65,235
July 31, 1924	6,217,292	5,680,554	5,352,937	536,738	327,617	223,649	4,906	35,998
July 31, 1925	6,852,265	6,193,417	5,917,485	658,848	275,932	191,544	3,970	19,018
July 31, 1926	7,259,618	6,455,852	6,175,775	803,766	280,077	204,113	2,325	11,740
July 31, 1927	7,995,668	7,189,585	6,880,124	806,083	309,461	239,768	1,226	19,669
July 31, 1928	7,614,292	6,834,063	6,534,946	780,229	299,117	217,584	1,251	15,137
July 31, 1929	7,070,334	7,001,065	6,778,199	870,269	312,866	232,392	795	13,455
July 31, 1930— By Months 1929-30—	6,911,010	6,105,840	5,803,348	805,170	302,492	205,765	372	12,572
August, 1929	587,069	558,754	530,439	83,643	28,315	20,285	—	1,395
September, 1929	572,408	552,834	519,260	81,894	26,574	17,484	—	949
October,	669,951	639,759	609,557	82,912	30,192	20,107	—	1,493
November, 1929	566,445	541,153	515,861	63,214	25,292	18,263	—	1,235
December, 1929	476,964	452,685	428,406	52,152	24,279	17,976	—	1,049
January, 1930	603,405	576,160	548,915	62,694	27,245	19,646	—	1,117
February, 1930	519,412	494,396	469,380	61,108	25,016	17,036	—	878
March,	532,165	507,646	483,127	64,400	24,519	15,826	—	884 ²
April,	559,421	531,911	504,401	67,454	27,510	18,156	—	985 ²
May,	497,337	473,284	449,231	67,201	24,053	15,947	—	914 ²
June,	425,670	405,236	384,802	59,196	20,434	13,278	—	761 ²
July,	398,085	379,022	359,959	59,302	19,063	11,761	—	740 ²

¹ Sea Island not reported monthly.² Preliminary estimate.³ Not available.

United States Cotton Consumption, by States¹

[In running bales, exclusive of linters]

Source: United States Bureau of the Census

	1924-25	1925-26	1926-27	1927-28	1928-29	1929-30
New England States:						
Maine . . .	146,379	136,318	135,994	122,070	122,329	113,965
New Hampshire . . .	205,326	224,981	231,844	206,936	206,281	169,482
Vermont . . .	10,129	7,952	10,436	9,906	10,245	8,710
Massachusetts . . .	950,942	945,790	972,820	789,975	779,166	627,483
Rhode Island . . .	230,035	220,332	219,227	203,621	218,980	132,749
Connecticut . . .	95,963	92,624	104,451	105,923	110,450	90,341
Total New England States . . .	1,636,774	1,627,997	1,674,772	1,438,431	1,447,451	1,142,730
Other non-cotton-growing States:						
New York . . .	164,610	163,905	162,477	140,326	127,602	101,390
New Jersey . . .	62,132	47,826	35,772	35,041	32,176	30,852
Pennsylvania . . .	30,687	30,054	26,508	23,977	18,276	17,078
Maryland . . .	37,150	42,998	45,619	37,830	36,521	31,326
Indiana . . .	15,157	17,419	19,444	17,624	16,888	15,193
Illinois . . .	11,783	11,326	12,390	12,412	11,443	10,138
Others . . .	10,762	14,084	19,103	14,580	8,443	7,954
Total other non-cotton-growing States	332,281	327,612	321,313	281,790	251,349	213,931
Cotton-growing States:						
Virginia . . .	110,883	121,243	129,783	120,024	106,424	120,449
North Carolina . . .	1,334,794	1,394,124	1,639,726	1,583,829	1,631,443	1,420,735
South Carolina . . .	1,029,797	1,078,146	1,245,482	1,228,642	1,301,496	1,124,247
Georgia . . .	966,324	1,012,980	1,152,855	1,168,431	1,269,578	1,089,661
Alabama . . .	430,051	494,283	570,409	552,020	617,249	583,439
Mississippi . . .	32,201	33,402	36,450	41,627	41,331	36,204
Tennessee . . .	115,202	130,619	150,914	158,387	176,092	169,407
Kentucky . . .	21,284	23,088	25,562	24,083	22,508	20,742
Louisiana . . .	33,566	34,633	39,184	44,898	39,294	28,428
Texas . . .	93,494	118,071	139,273	130,042	121,051	100,602
Others . . .	56,766	59,654	63,862	61,859	65,799	55,265
Total cotton-growing States . . .	4,224,362	4,500,243	5,193,500	5,113,842	5,392,265	4,749,179
Total United States	6,193,417	6,455,852	7,189,585	6,834,063	7,091,065	6,105,840

¹ Statistics here given are for years ending July 31.

United States Cotton Production, Consumption, and Active Cotton Spindles

[Running bales, except those for production in 1850, 1860, and 1870, which are in equivalent 400-pound bales, and those for consumption from 1840 to 1870, and for foreign cotton, which are in equivalent 500-pound bales. Linters are not included except for quantities consumed in 1909 and years prior thereto.]

Source: United States Bureau of the Census

COTTON YEAR END- ING JULY 31	Cotton Produced (Bales) ¹	COTTON CONSUMED (BALES)				ACTIVE COTTON SPINDLES			
		United States	Cotton- growing States	New England States	All Other States	United States	Cotton- growing States	New England States	All Other States
1840	2,063,915	236,525	71,000	155,708	6,817	2,284,631	180,927	1,597,394	506,310
1850	2,469,093	575,506	78,140	430,603	66,763	3,998,022	264,571	2,958,536	774,915
1860	5,387,052	845,410	93,553	567,403	184,454	5,235,727	324,052	3,858,962	1,052,713
1870	3,011,996	796,616	68,702	551,250	176,664	7,132,415	327,871	5,498,308	1,306,236
1880	5,755,339	1,570,344 ²	188,748 ²	1,129,498 ²	252,098 ²	10,653,435 ²	561,360	8,632,087 ²	1,459,988 ²
1890	7,472,511	2,518,409	538,895	1,502,177	477,337	14,384,180	1,570,288	10,934,297	1,879,595
1900	9,393,242	3,873,165	1,523,168	1,900,498	440,499	19,472,232	4,367,688	13,171,377	1,933,167
1905	13,451,337	4,278,980 ³	2,140,151 ³	1,753,283 ³	385,547 ³	23,687,495	7,631,331	14,202,971	1,853,193
1906	10,495,105	4,909,279	2,373,577	2,059,900	475,802	25,250,096	8,994,865	14,407,580	1,847,648
1907	12,983,201	4,984,936	2,410,993	2,073,355	500,588	26,375,194	9,527,964	14,912,517	1,934,710
1908	11,057,822	4,539,090	2,187,096	1,894,835	457,159	27,505,422	10,200,903	15,329,333	1,975,186
1909	13,086,005	5,240,719	2,553,797	2,144,448	542,474	28,018,305	10,429,200	15,591,851	1,997,254
1910	10,072,731	4,621,742	2,233,506	1,995,456	392,780	28,266,862	10,494,112	15,735,086	2,037,664
1911	11,568,334	4,498,417	2,249,135	1,882,060	367,222	29,522,597	11,084,623	16,510,981	1,926,993
1912	15,553,073	5,129,346	2,635,878	2,076,405	417,063	30,578,528	11,582,869	17,139,945	1,855,714
1913	13,488,539	5,483,321	2,861,743	2,178,237	443,341	31,519,766	12,227,226	17,311,451	1,981,089
1914	13,982,811	5,577,408	2,925,294	2,219,197	432,917	32,107,572	12,711,303	17,408,372	1,987,897
1915	15,905,840	5,597,362	3,026,969	2,149,398	420,995	31,964,235	12,955,712	17,100,615	1,907,908
1916	11,068,173	6,397,613	3,527,528	2,388,726	481,359	32,805,883	13,382,065	17,474,264	1,949,554
1917	11,363,915	6,778,505	3,888,348	2,414,372	485,755	33,888,835	14,155,758	17,760,968	1,972,109
1918	11,248,242	6,566,489	3,697,098	2,402,520	466,871	34,542,665	14,529,063	17,984,720	2,028,882
1919	11,906,480	5,765,936	3,199,027	2,165,031	401,878	34,930,934	14,846,239	18,065,857	2,018,838
1920	11,325,532	6,419,734	3,582,919	2,397,126	439,689	35,380,953	15,230,983	18,287,424	1,962,546
1921	13,270,970	4,892,672	2,997,471	1,613,597	281,604	36,047,367	15,708,988	18,387,789	1,950,590
1922	7,977,778	5,909,820	3,729,777	1,822,681	357,362	35,707,738	15,906,165	17,938,805	1,862,768
1923	9,729,306	6,666,092	4,247,748	2,049,580	368,764	36,260,001	16,310,360	18,053,716	1,895,925
1924	10,170,694	5,680,554	3,858,317	1,534,777	287,460	35,849,338	16,944,178	17,066,036	1,839,124
1925	13,639,399	6,193,417	4,220,010	1,638,774	334,633	35,032,246	17,292,042	15,975,442	1,764,762
1926	16,122,516	6,455,852	4,500,243	1,627,997	327,612	34,750,266	17,574,450	15,525,672	1,650,144
1927	17,735,070	7,189,585	5,193,500	1,674,772	321,313	34,409,910	17,893,908	14,995,460	1,520,542
1928	12,783,112	6,834,063	5,113,842	1,438,431	281,790	33,569,792	18,281,754	13,815,242	1,472,796
1929	14,296,549	7,091,065	5,392,265	1,447,451	251,349	32,417,036	18,540,634	12,537,512	1,338,890
1930	14,547,791	6,105,840	4,749,179	1,142,730	213,931	31,245,078	18,585,878	11,351,290	1,307,910

¹ Relates to crop of preceding year. ² Cotton mills only. ³ Does not include foreign cotton.

Receipts, Stocks and Exports of Cotton at Alexandria, Egypt

[In cantars of 99,049 pounds each]

Source: Alexandria General Produce Association

WEEK	Receipts			Stocks			Exports		
	1928-29		1929-30	1928-29		1929-30	1928-29		1929-30
	Week	Since Sept. 1	Week	Since Sept. 1	Week	Since Sept. 1	Week	Since Sept. 1	Week
September 6	28,484	27,405	6,919	3,325	1,125,278	1,175,550	100,465	35,385	100,587
20	166,103	278,248	117,603	170,276	1,322,213	1,203,975	81,897	179,293	53,872
October 4	308,137	899,472	301,588	669,896	1,672,195	1,557,552	122,862	380,506	75,958
18	433,908	1,677,298	385,700	1,389,846	2,105,611	2,061,236	158,629	724,916	122,277
November 1	519,063	2,671,885	432,907	2,709,716	2,609,722	2,821,553	249,120	1,215,392	147,584
15	432,170	3,536,948	397,717	3,107,433	2,972,299	2,924,232	229,436	1,717,878	295,038
29	324,056	4,252,735	321,950	3,790,438	3,227,316	3,164,448	208,377	2,178,648	1,347,424
December 13	277,709	4,871,066	327,169	4,291,156	3,350,485	3,174,984	203,694	2,673,810	179,021
27	278,769	5,413,629	209,323	4,780,692	3,554,978	3,222,898	168,426	3,011,880	218,215
January 10	164,824	5,800,750	149,280	4,108,689	3,605,218	3,289,084	153,676	3,348,761	2,722,017
24	161,553	6,057,063	146,509	5,57,448	3,529,154	3,417,239	158,547	3,681,138	114,140
February 7	124,316	6,311,379	197,429	5,942,987	3,391,162	3,449,858	191,146	4,073,446	158,070
21	112,628	6,526,791	177,333	6,318,594	3,293,230	3,549,018	138,414	4,386,690	129,317
March 7	123,505	6,828,444	139,183	6,665,546	3,290,755	3,736,117	158,411	4,690,918	80,017
21	77,493	6,982,144	205,369	7,002,245	3,224,194	3,817,084	142,995	4,911,179	102,201
April 4	157,411	7,238,483	157,086	7,335,440	3,036,847	3,957,464	236,084	5,354,865	3,349,384
18	119,389	7,479,797	137,724	7,612,356	2,981,338	4,007,114	157,456	5,651,688	136,853
May 2	147,605	7,718,589	164,061	7,916,171	2,922,424	3,883,899	155,955	5,949,394	127,413
16	74,437	7,894,756	78,888	8,174,416	3,290,755	3,736,117	158,411	4,690,918	264,352
30	16,869	7,929,587	56,848	8,285,780	2,617,541	3,381,108	162,858	6,231,587	32,626
June 13	4,304	7,946,874	38,226	8,377,942	2,383,549	3,879,622	143,394	6,465,275	5,332,554
27	3,027	7,953,171	2,695	8,389,963	2,134,561	3,769,389	122,792	6,716,554	67,752
July 11	1,080	7,957,478	1,327	8,387,301	1,950,726	3,674,727	116,992	6,971,839	65,228
25	3	7,958,045	2,526	8,390,236	1,677,202	3,615,596	92,143	7,159,981	5,662,543
August 8	638	7,959,181	504	8,390,856	1,539,564	3,546,875	76,401	7,434,072	33,203
22	404	7,959,645	2,430	8,396,772	1,379,474	3,479,435	60,749	7,733,400	29,635

Egyptian Cotton Exports, by Countries of Destination, during Egyptian Cotton Season, from September 1 to August 31

[In running Egyptian bales]

Source: Alexandria General Produce Association

	1924-25	1925-26	1926-27	1927-28	1928-29	1929-30
Belgium . . .	3,299	3,985	5,906	3,431	9,141	7,447
England . . .	424,953	426,278	436,798	343,517	369,348	291,211
France . . .	126,464	126,052	117,149	114,986	144,063	118,018
Germany . . .	14,377	9,523	21,517	26,577	31,797	29,663
Greece and Syria . . .	3,286	1,973	2,893	1,166	534	578
Holland . . .	9,799	7,173	11,554	11,855	15,865	19,364
India and China . . .	434	874	1,973	1,525	2,595	8,452
Italy . . .	160,710	140,772	185,307	151,354	177,480	146,039
Japan . . .	33,080	50,562	43,371	34,432	43,820	31,753
Portugal . . .	823	843	978	665	1,163	1,276
Russia . . .	—	—	18,061	62,500	57,522	45,289
Spain . . .	19,608	26,001	23,957	21,901	27,322	34,241
United States . . .	135,200	150,570	162,186	128,324	192,793	94,084
Other countries . . .	2,530	1,587	2,078	3,712	2,925	3,385
Total . . .	934,563	946,193	1,033,728	905,945	1,076,368	830,800

NOTE.—This table shows only the destination of the cotton as given when the cotton was shipped from Egypt. Some of the cotton was reshipped from these countries of initial destination and was finally consumed in other countries; for example, some of the cotton reported here as taken by Great Britain was reshipped by the latter to the United States.

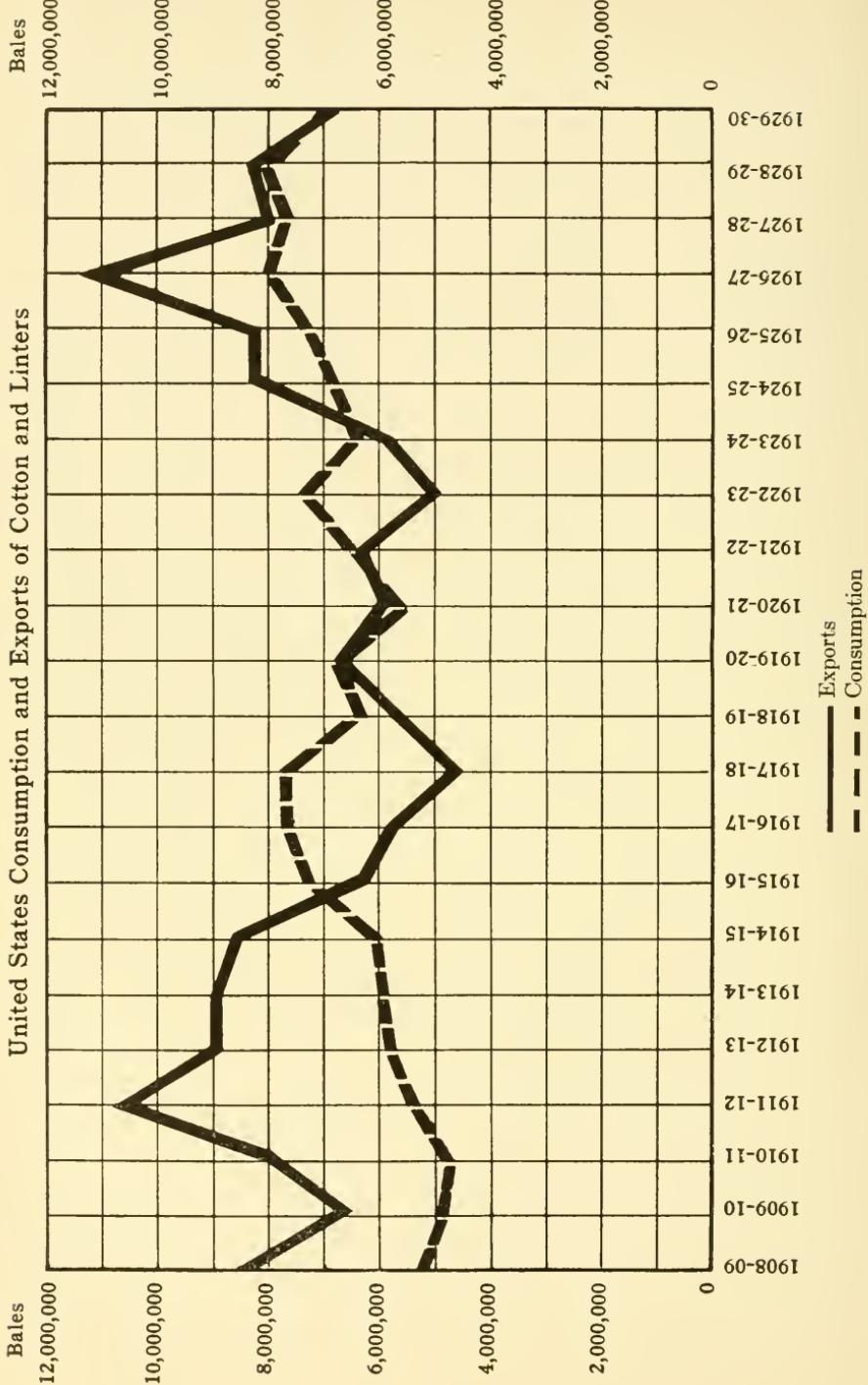
Indian Exports of Cotton

[Bales of 478 pounds net]

[Fiscal years ending March 31]

Source: Bureau of Foreign and Domestic Commerce

COUNTRY OF DESTINATION	1926	1927	1928	1929	1930
United Kingdom . . .	188,288	65,042	131,903	201,774	226,123
Germany . . .	182,192	113,643	211,225	271,202	287,973
Netherlands . . .	39,709	23,223	28,954	42,394	53,186
Belgium . . .	203,419	124,674	189,186	289,956	285,199
France . . .	161,152	96,879	152,127	170,458	211,615
Spain . . .	60,984	42,350	50,607	63,444	66,920
Italy . . .	381,618	239,448	272,228	321,385	328,587
Austria . . .	1,617	800	46	—	—
Ceylon . . .	5,717	3,322	4,183	4,545	3,938
Indo-China . . .	36,541	16,342	31,883	12,915	21,391
China . . .	456,454	308,048	92,005	337,575	474,017
Japan . . .	1,744,256	1,447,041	1,016,923	1,347,262	1,371,972
United States . . .	25,923	16,434	26,791	39,119	67,914
All other . . .	4,138	4,602	4,238	3,833	7,249
Total . . .	3,492,007	2,504,867	2,212,300	3,105,862	3,405,984



United States Production, Consumption, and Exports of Cotton and Linters

The statistics below are in running bales except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. The years as given are the official cotton seasons. Through 1913-14 the seasons were from September 1 to August 31. Starting with 1914-15, they have been from August 1 to July 31.

Source: United States Bureau of the Census

COTTON YEAR	Production	Consumption	Exports
1906-07	13,097,992	4,984,936	8,503,265
1907-08	11,527,833	4,539,090	7,573,349
1908-09	13,418,144	5,240,719	8,574,024
1909-10	10,350,978	4,798,953	6,339,028
1910-11	12,384,248	4,704,978	7,781,414
1911-12	16,068,936	5,367,583	10,681,758
1912-13	14,159,078	5,786,330	8,800,966
1913-14	14,290,320	5,884,733	8,914,839
1914-15	16,738,241	6,009,207	8,544,563
1915-16	12,012,813	7,278,529	6,191,110
1916-17	12,664,078	7,658,207	5,739,009
1917-18	12,344,664	7,685,329	4,476,124
1918-19	12,816,716	6,223,837	5,663,920
1919-20	11,920,625	6,762,207	6,598,347
1920-21	13,699,975	5,408,979	5,796,107
1921-22	8,360,153	6,548,853	6,316,121
1922-23	10,319,843	7,312,201	4,864,027
1923-24	10,810,234	6,217,292	5,772,000
1924-25	14,497,361	6,852,265	8,195,876
1925-26	17,167,011	7,259,618	8,155,570
1926-27	18,796,934	7,995,668	11,183,938
1927-28	13,658,233	7,614,292	7,733,177
1928-29	15,382,315	7,970,334	8,229,799
1929-30	15,585,961	6,911,010	6,807,751

United States Imports of Cotton, by Countries of Production

[Equivalent 500-pound bales]

Source: United States Department of Commerce

SEASON ENDING—	Egypt	China	Peru	India	Mexico	All Other	Total
July 31, 1915	252,373	25,631	10,353	7,845	85,180	904	382,286
July 31, 1916	350,796	35,792	10,909	4,214	30,098	5,765	437,574
July 31, 1917	199,892	36,063	11,069	3,860	32,858	8,215	291,957
July 31, 1918	114,580	38,964	19,692	7,096	35,726	5,158	221,216
July 31, 1919	100,006	10,871	25,230	2,893	54,434	8,151	201,585
July 31, 1920	485,004	57,185	63,426	14,358	65,343	14,898	700,214
July 31, 1921	87,168	14,722	22,597	8,489	88,155	5,210	226,341
July 31, 1922	233,729	15,563	38,753	10,348	53,637	11,435	363,465
July 31, 1923	329,335	50,239	21,186	22,124	45,679	1,391	469,954
July 31, 1924	164,152	45,118	19,928	34,419	27,062	1,609	292,288
July 31, 1925	190,313	33,703	13,389	28,147	44,384	3,392	313,328
July 31, 1926	238,620	22,452	16,637	22,143	23,553	2,106	325,511
July 31, 1927	231,767	33,466	20,877	18,892	93,272	2,709	400,983
July 31, 1928	201,856	62,888	23,319	25,663	22,843	1,657	338,226
July 31, 1929	296,286	34,857	17,353	54,424	52,009	2,875	457,804
July 31, 1930	215,181	44,034	19,427	58,449	39,323	1,693	378,107
Month of—							
August, 1929	17,279	405	2,577	4,368	—	164	24,793
September, 1929	16,017	770	2,396	3,694	971	126	23,974
October, 1929	4,186	505	2,663	4,542	7,584	335	19,815
November, 1929	19,441	376	2,087	5,117	8,431	50	35,502
December, 1929	18,727	3,976	2,021	1,820	9,570	76	36,190
January, 1930	23,128	12,617	682	10,141	4,467	439	51,474
February, 1930	10,990	8,700	252	2,321	1,242	138	23,643
March, 1930	16,110	5,766	468	4,727	1,070	138	28,279
April, 1930	50,512	4,727	2,169	8,222	1,656	111	67,397
May, 1930	37,701	4,010	3,855	5,301	2,414	47	53,328
June, 1930	968	1,817	257	4,957	1,506	45	9,550
July, 1930	122	365	—	3,239	412	24	4,162

Great Britain Raw Cotton Trade and Distribution

[000's omitted]

Source: Liverpool Cotton Association

YEAR	IMPORTS				EXPORTS			CONSUMPTION		STOCK AT END OF SEASON		YEAR	
	American	Brazilian	Egyptian, etc.	Peruvian, etc.	Total	Average Weight of Bales	Total	Average Weight of Bales	Liverpool		Great Britain		
									Total	Average Weight of Bales	Total	Average Weight of Bales	
1870	1,664	403	220	112	1,063	3,462	380	658	2,797	386	379	547	1870
1880	2,634	123	240	73	570	3,640	434	531	3,068	444	478	681	1880
1890	2,918	150	272	66	604	4,010	467	477	3,500	475	910	1,179	1890
1900-01	3,028	39	389	55	128	3,639	506	375	3,101	506	366	506	1900-01
1910-11	3,399	125	603	127	252	4,506	503	557	3,797	498	402	724	1910-11
1911-12	4,305	78	590	151	106	5,230	507	642	4,261	503	595	1,087	1911-12
1912-13	3,615	202	591	193	136	4,737	506	527	4,345	501	572	994	1912-13
1913-14	3,507	286	570	249	264	4,876	492	437	4,231	491	886	1,225	1913-14
1914-15	4,048	40	559	206	277	5,130	504	605	3,890	496	1,462	1,815	1914-15
1915-16	2,698	5	557	197	154	3,611	513	494	3,971	497	644	962	1915-16
1916-17	2,646	17	442	191	96	3,392	512	204	3,567	505	268	585	1916-17
1917-18	2,276	25	484	143	211	3,139	512	3	2,960	506	251	760	1917-18
1918-19	2,490	13	414	165	84	3,166	510	75	2,929	521	659	900	1918-19
1919-20	3,268	79	623	292	200	4,462	507	449	3,434	503	1,015	1,479	1919-20
1920-21	1,716	15	252	226	93	2,302	505	291	2,080	512	1,085	1,474	1920-21
1921-22	1,811	111	417	309	62	2,710	506	224	2,835	497	787	1,163	1921-22
1922-23	1,335	89	496	299	243	2,462	508	194	2,746	496	399	683	1922-23
1923-24	1,682	58	481	421	326	2,968	500	249	2,741	499	414	661	1923-24
1924-25	2,568	50	462	469	196	3,745	491	236	3,280	491	570	889	1924-25
1925-26	2,255	153	437	555	226	3,626	488	238	3,092	488	849	1,185	1925-26
1926-27	2,645	115	454	260	87	3,849	502	306	3,129	497	1,212	1,595	1926-27
1927-28	1,468	79	373	225	226	2,592	498	138	3,073	495	709	977	1927-28
1928-29	1,918	133	416	194	237	3,176	502	155	2,984	502	756	1,011	1928-29
1929-30	1,277	371	333	195	321	2,748	483	143	2,610	487	706	1,004	1929-30

NOTE.—Through 1890, the import, export, and consumption figures were for year ending December 31; from 1900-01 through 1913-14 the figures are for year ending August 31; commencing with 1914-15 the figures are for year ending July 31.

United States Exports of Domestic Cotton and Linters, by Countries of Destination

[For fiscal years]
Source: United States Department of Commerce

Exports (EQUIVALENT 500-Pound Bales) to—

YEAR	Total Value	Total Bales	United Kingdom						Belgium		Russia ¹		Austria ¹		Nether-lands		All Other Countries		Mexico	Canada	Japan	Europe	All
			United	Kingdom	Germany	France	Italy	Spain	Belgium	Russia ¹	Austria ¹	Nether-lands	All Other Countries	Europe	Japan	Canada	Mexico	Other Countries					
1895	\$204,900,390	7,034,866	3,553,782	1,504,631	790,699	232,636	255,679	145,340	141,998	24,852	25,989	55,319	22,130	105,634	75,453	294	68,074	38,817	322	30,388	40,388	38,817	322
1896	190,056,490	4,670,453	2,267,222	1,038,457	475,265	261,644	216,178	87,966	91,022	15,912	14,219	51,367	11,367	48,790	30,408	80,408	122,495	42,433	333	30,408	30,408	30,408	333
1897	230,890,971	6,207,510	3,127,186	1,371,577	716,025	323,488	345,465	84,570	103,825	35,614	34,731	60,189	22,214	122,734	98,230	36,130	4,130	122,734	122,734	122,734	122,734	122,734	
1898	230,442,215	7,700,529	3,521,101	1,855,525	842,038	387,581	263,648	161,941	103,825	43,500	43,500	60,189	22,214	122,734	98,230	36,130	4,130	122,734	122,734	122,734	122,734	122,734	
1899	209,564,774	7,546,821	3,609,444	1,728,975	803,406	417,353	248,635	129,524	95,012	57,127	51,021	84,500	182,734	109,383	13,522	109,383	13,522	13,045	35,103	35,103	35,103	35,103	
1900	241,882,737	6,201,166	2,302,128	1,619,173	736,092	443,951	246,612	148,319	54,450	44,919	74,635	65,635	323,202	109,383	18,522	109,383	18,522	13,045	718	718	718	718	
1901	313,673,443	6,661,781	3,106,857	1,312,324	1,705,624	755,732	355,359	257,346	154,682	73,446	37,238	53,180	62,325	121,908	120,980	21,500	120,980	21,500	17,554	12,500	12,500	12,500	12,500
1902	290,651,819	7,086,086	2,798,096	1,915,094	806,673	444,950	266,336	157,351	181,938	39,912	42,542	82,243	152,826	127,640	66,507	127,640	66,507	2,978	12,500	12,500	12,500	12,500	
1903	316,180,429	6,126,386	2,302,246	1,795,554	734,286	363,295	184,862	105,213	168,306	28,155	16,055	61,488	45,870	88,755	56,172	5,580	88,755	56,172	5,580	12,500	12,500	12,500	12,500
1904	379,965,014	8,609,698	3,967,254	2,011,679	818,304	534,735	245,537	145,564	129,060	62,572	31,163	72,911	336,575	115,857	70,082	336,575	115,857	9,405	29,405	29,405	29,405	29,405	
1905	401,005,921	7,263,090	3,181,143	1,871,441	817,583	486,607	241,747	114,673	112,673	56,375	18,490	44,486	147,269	141,908	29,385	141,908	29,385	4,603	12,500	12,500	12,500	12,500	
1907	9,036,434	3,966,119	2,315,651	1,006,633	567,916	315,652	121,141	113,630	29,062	29,062	29,062	29,062	262,283	150,343	7,775	150,343	7,775	7,775	12,500	12,500	12,500	12,500	
1908	437,788,202	6,201,166	2,633,997	1,705,624	889,932	418,921	262,744	98,371	97,470	97,470	97,470	97,470	97,470	97,470	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500
1909	417,390,655	8,895,570	3,605,355	2,438,090	1,098,473	565,695	301,789	156,631	94,782	30,129	35,033	94,782	94,782	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	12,500	
1910	450,447,233	6,413,416	2,444,558	1,887,657	968,422	393,327	178,455	102,346	67,203	57,220	18,823	43,378	95,000	125,592	29,404	95,000	125,592	1,831	4,631	4,631	4,631	4,631	
1911	585,318,869	8,067,782	3,074,054	1,720,707	1,021,998	436,296	240,276	120,767	84,941	84,941	18,124	156,724	156,724	156,724	156,724	156,724	156,724	156,724	156,724	156,724	156,724	156,724	
1912	565,849,680	11,024,751	4,343,108	3,156,171	1,228,294	636,077	313,267	211,903	112,262	125,564	35,242	83,821	83,821	83,821	83,821	83,821	83,821	83,821	83,821	83,821	83,821	83,821	
1913	547,357,195	9,124,561	3,716,898	2,443,886	1,074,987	500,833	317,954	226,907	113,182	14,537	55,376	396,779	181,667	181,667	181,667	181,667	181,667	181,667	181,667	181,667	181,667	181,667	
1914	610,475,301	9,521,581	3,581,501	2,884,324	1,139,399	537,357	297,339	227,474	99,076	106,511	35,033	63,725	309,315	309,315	309,315	309,315	309,315	309,315	309,315	309,315	309,315	309,315	
1915	376,217,972	5,807,157	3,916,749	294,194	912,597	1,127,919	1,074,984	656,391	617,263	275,034	50,057	82,456	455	455	455	455	455	455	455	455	455	455	
1916	374,186,247	6,168,140	2,760,890	—	890,076	836,076	340,246	340,246	173,449	—	102,087	169,154	563,037	197,659	23,695	197,659	23,695	2,584	12,500	12,500	12,500	12,500	
1917	543,074,655	6,176,162	2,895,423	—	658,553	658,553	687,158	394,063	394,063	48,008	48,008	184,717	184,717	530,802	187,301	5,298	187,301	5,298	1,281	12,500	12,500	12,500	12,500
1918	655,024,655	4,641,023	2,387,101	—	591,447	704,199	572,068	250,244	155,709	155,709	15,945	—	10,098	32,572	535,973	20,366	14,122	20,366	14,122	14,122	14,122	14,122	
1919	903,975,146	5,525,863	2,494,009	—	773,744	557,549	281,343	72,632	310	55,386	55,386	55,386	55,386	549,367	533,957	151,937	533,957	151,937	1,082	32,665	32,665	32,665	32,665
1920	1,381,707,502	7,087,487	3,444,794	420,758	596,391	617,263	275,034	209,572	—	42,858	186,476	183,729	876,250	216,406	1,141	216,406	1,141	16,615	12,500	12,500	12,500	12,500	
1921	600,185,629	5,022,777	1,786,984	1,616,674	820,049	468,590	341,551	186,272	—	5,862	98,754	50,056	554,802	169,166	53,884	169,166	53,884	1,118,261	253,032	253,032	253,032	253,032	
1922	820,537,294	8,211,047	2,207,757	1,806,743	2,98,325	1,048,325	844,812	364,376	297,778	485,046	684	157,718	176,462	164,425	280,307	45,991	45,991	45,991	45,991	45,991	45,991	45,991	
1923	866,923,448	11,559,731	4,641,534	2,221,964	939,084	589,743	704,199	591,447	320,921	229,480	302,430	341,014	1,407	177,347	150,364	1,007,250	150,364	1,007,250	1,007,250	1,007,250	1,007,250	1,007,250	
1924	820,537,294	8,120,191	1,464,534	2,010,651	873,153	772,395	873,153	72,632	190,739	164,746	318,741	235,775	61,250	118,261	253,032	568	12,500	12,500	12,500	12,500	12,500	12,500	
1925	1,000,980,197	8,439,071	5,022,777	1,690,937	943,386	745,070	314,619	203,461	166,018	—	5,862	98,754	50,056	554,802	169,166	53,884	169,166	53,884	81	50,527	50,527	50,527	50,527
1926	917,219,197	8,211,047	2,207,757	1,806,743	2,98,325	1,048,325	844,812	364,376	297,778	485,046	684	157,718	176,462	164,425	280,307	45,991	45,991	45,991	45,991	45,991	45,991	45,991	
1927	866,923,448	11,559,731	4,641,534	2,221,964	939,084	589,743	704,199	591,447	320,921	229,480	302,430	341,014	1,407	177,347	150,364	1,007,250	150,364	1,007,250	1,007,250	1,007,250	1,007,250	1,007,250	
1928	866,923,448	8,120,191	1,464,534	2,010,651	873,153	772,395	873,153	72,632	190,739	164,746	318,741	235,775	61,250	118,261	253,032	568	12,500	12,500	12,500	12,500	12,500	12,500	
1929	866,923,448	8,120,191	1,464,534	2,010,651	873,153	772,395	873,153	72,632	190,739	164,746	318,741	235,775	61,250	118,261	253,032	568	12,500	12,500	12,500	12,500	12,500	12,500	
1930	671,201,233	7,239,439	1,314,573	1,840,193	888,767	712,746	285,798	285,798	190,739	164,746	318,741	235,775	61,250	118,261	253,032	568	12,500	12,500	12,500	12,500	12,500	12,500	

¹ Includes Finland and Poland prior to 1919.

² Includes Czechoslovakia and Hungary prior to 1920.

United States Exports of Cotton, by Customs Districts

[In running bales, including linters for cotton years]

Source: United States Department of Commerce

	1924-25	1925-26	1926-27	1927-28	1928-29	1929-30
Maine and New Hampshire	1,292	2,781	877	3,244	3,640	1,193
Massachusetts	14,400	14,686	11,882	10,493	9,404	7,480
New York	478,364	314,563	384,035	191,680	129,250	71,911
Philadelphia	7,490	2,997	6,553	2,189	233	229
Maryland	497	9,962	4,632	5,077	5,493	1,262
Virginia	256,414	310,527	337,118	172,823	139,880	90,645
North Carolina	109,537	99,506	139,758	110,392	106,195	71,899
South Carolina	191,597	230,379	464,365	192,386	108,223	144,742
Georgia	480,648	867,632	1,049,478	622,823	303,509	376,494
Florida	5,066	32,564	35,188	12,341	13,800	31,946
Mobile	85,386	149,046	219,512	226,495	207,145	319,951
New Orleans	1,366,381	1,782,253	2,136,224	1,381,660	1,326,131	1,166,889
Sabine	—	—	—	7,756	17,304	15,111
Galveston	4,715,422	3,866,370	5,729,187	4,277,175	5,002,251	3,577,035
San Antonio	8,774	30	13,883	171,477	296,646	367,330
San Francisco	112,062	82,321	95,563	4,843	36,277	68,601
Oregon	—	—	600	—	—	4,162
Washington	87,286	81,596	107,290	4,818	23,759	29,893
Idaho-Montana	—	85	75	1	—	140
Dakota	1,371	10,571	17,191	3,808	8,839	6,487
Duluth and Superior	596	1,599	1,498	2,081	1,536	350
Michigan	105,671	163,977	192,709	141,026	171,537	137,235
Ohio	—	—	—	50	60	161
Buffalo	21,396	19,101	16,711	23,633	14,937	9,572
St. Lawrence	36,582	30,513	35,804	36,542	26,871	12,651
El Paso	55	4	2	—	3	—
Vermont	31,824	26,436	20,946	25,476	43,650	21,647
Porto Rico	920	—	13	—	—	943
Los Angeles	76,788	56,071	162,844	102,888	233,226	271,792
Rochester	57	—	—	—	—	—
Total	8,195,876	8,155,570	11,183,938	7,733,177	8,229,799	6,807,751

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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CARDED BROADCLOTHS (GRAY ONLY)¹

1929		10,262	165,788	147,695	155,744	—	—
First quarter	.	9,644	37,735	38,759	53,584	2,156	22,164
Second quarter	.	10,294	40,676	36,063	25,940	6,769	12,041
Third quarter	.	10,587	41,754	36,269	35,663	12,254	11,435
Fourth quarter	.	10,522	45,623	36,604	40,557	21,273	15,388

1930		8,826	125,429	140,976	134,597	—	—
First quarter	.	8,689	37,139	39,828	33,269	18,584	8,829
Second quarter	.	7,078	25,917	29,965	23,791	14,536	2,655
Third quarter	.	7,818	23,134	32,040	41,162	5,630	11,777
Fourth quarter	.	11,719	39,239	39,143	36,375	5,726	9,009

CHAMBRAYS²

1928		1,825	133,950	131,106	141,251	—	—
First quarter	.	1,868	38,015	31,713	27,463	30,349	18,319
Second quarter	.	1,876	35,421	30,160	27,520	35,610	15,679
Third quarter	.	1,901	27,787	33,721	46,846	29,676	28,804
Fourth quarter	.	1,655	32,727	35,512	39,422	26,891	32,714

1930		6,397	83,736	71,431	70,039	—	—
First quarter	.	4,329	16,571	16,791	13,569	3,995	9,001
Second quarter	.	6,796	23,774	5,933	9,509	21,836	12,577
Third quarter	.	7,934	22,990	25,250	23,527	19,576	10,854
Fourth quarter	.	6,530	20,401	23,457	23,434	16,520	10,831

CHEVIOTS²

1929		4,217	56,739	58,969	53,019	—	—
First quarter	.	4,239	14,822	16,347	15,787	16,593	12,350
Second quarter	.	4,581	16,259	12,272	9,463	20,580	9,541
Third quarter	.	4,290	13,582	17,883	20,064	16,279	11,722
Fourth quarter	.	3,759	12,076	12,467	7,705	15,888	6,960

1930		2,542	32,190	41,502	37,729	—	—
First quarter	.	3,494	11,638	10,860	11,457	16,666	7,557
Second quarter	.	3,096	9,987	14,953	11,133	11,700	3,737
Third quarter	.	1,859	5,369	8,269	7,601	8,800	3,069
Fourth quarter	.	1,720	5,196	7,420	7,538	6,576	3,187

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930—(Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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DENIMS, WHITE BACK, 2.20 YARD²

1929		142,596	133,694	130,139	—	—
First quarter	—	39,075	38,461	30,097	14,832	39,802
Second quarter	—	37,294	27,719	6,187	24,407	18,270
Third quarter	—	34,334	34,120	52,503	24,621	36,653
Fourth quarter	—	31,893	33,394	41,352	23,120	44,611
1930		70,264	67,808	58,138	—	—
First quarter	—	21,828	19,008	4,010	18,262	12,437
Second quarter	—	15,564	15,182	10,521	18,644	7,776
Third quarter	—	12,898	17,002	17,357	14,540	8,131
Fourth quarter	—	19,974	16,616	26,250	17,898	17,765

DENIMS, EXCLUDING WHITE BACK, 2.20 YARD²

1929		81,050	74,499	70,056	—	—
First quarter	—	23,658	22,199	20,576	10,066	16,100
Second quarter	—	21,453	16,450	8,075	15,069	7,725
Third quarter	—	17,123	18,967	23,944	13,225	12,702
Fourth quarter	—	18,816	16,883	17,461	15,158	13,280
1930		92,520	98,847	78,691	—	—
First quarter	—	28,978	32,109	17,094	19,705	15,421
Second quarter	—	25,773	19,093	12,510	26,385	8,838
Third quarter	—	20,601	27,124	27,543	19,862	9,257
Fourth quarter	—	17,168	20,521	21,544	16,509	10,280

THREE-LEAF DRILLS, 40 INCHES AND NARROWER²

1929		1,829	32,350	34,029	33,222	—	—
First quarter	—	1,708	7,559	9,664	8,940	2,530	2,288
Second quarter	—	1,742	7,700	7,368	6,921	2,862	1,841
Third quarter	—	1,892	8,649	10,004	11,360	1,507	3,197
Fourth quarter	—	1,975	8,442	6,993	6,001	2,956	2,205
1930		1,609	25,950	25,327	24,299	—	—
First quarter	—	1,931	7,313	7,278	7,791	2,991	2,718
Second quarter	—	1,738	6,946	6,524	5,372	3,413	1,566
Third quarter	—	1,440	5,957	6,112	5,573	3,258	1,027
Fourth quarter	—	1,327	5,734	5,413	5,563	3,579	1,177

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930—(Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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DRILLS, 40 INCHES AND NARROWER, EXCLUDING THREE-LEAF²

1929						
First quarter	5,287	80,736	81,499	77,687	—	—
Second quarter	5,392	20,597	22,778	20,784	6,753	9,429
Third quarter	5,624	22,361	21,730	18,326	7,384	6,025
Fourth quarter	4,783	17,919	19,551	22,136	5,752	8,610
	5,350	19,859	17,440	16,441	8,171	7,611
1930						
First quarter	4,792	63,168	57,853	55,687	—	—
Second quarter	6,132	21,132	18,622	20,329	10,681	9,318
Third quarter	4,984	16,611	15,164	10,562	12,128	4,716
Fourth quarter	3,527	10,460	11,680	11,327	10,908	4,363
	4,527	14,965	12,387	13,469	13,486	5,445

DRILLS AND TWILLS, WIDER THAN 40 INCHES²

1929						
First quarter	2,619	37,932	33,148	30,895	—	—
Second quarter	2,800	10,392	9,945	9,850	1,358	7,918
Third quarter	3,019	11,016	10,386	6,525	1,988	4,057
Fourth quarter	2,477	9,200	8,704	11,393	2,484	6,746
	2,181	7,324	4,113	3,127	5,695	5,760
1930						
First quarter	2,029	24,376	23,938	20,594	—	—
Second quarter	2,602	8,693	8,111	7,248	6,277	4,897
Third quarter	2,191	6,928	6,675	4,539	6,530	2,761
Fourth quarter	1,679	4,330	4,231	3,835	6,629	2,365
	1,643	4,425	4,921	4,972	6,133	2,416

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930—(Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
SINGLE FILLING FLAT DUCKS, 29 INCHES, 8 OUNCES ³						
1929	—	16,673	18,439	17,999	—	—
First quarter	—	2,541	2,427	5,942	5,487	4,050
Second quarter	—	5,833	2,554	4,159	8,816	5,655
Third quarter	—	4,962	11,187	5,850	2,427	507
Fourth quarter	—	3,337	2,271	2,048	3,494	285
1930	—	20,498	18,080	18,288	—	—
First quarter	—	4,987	2,896	4,887	5,498	2,297
Second quarter	—	7,164	4,261	6,368	8,402	4,404
Third quarter	—	6,488	9,263	5,161	5,559	480
Fourth quarter	—	1,859	1,660	1,872	5,759	693

SINGLE FILLING FLAT DUCKS, EXCLUDING 29 INCHES, 8 OUNCES³

1929	—	30,358	30,663	30,682	—	—
First quarter	—	7,115	7,820	11,301	5,743	8,459
Second quarter	—	7,132	6,763	4,683	6,062	6,379
Third quarter	—	7,602	9,217	7,503	4,446	4,984
Fourth quarter	—	8,509	6,863	7,195	6,091	5,315
1930	—	22,010	22,862	21,808	—	—
First quarter	—	6,300	6,432	9,306	5,837	7,935
Second quarter	—	5,882	6,524	3,116	5,194	4,528
Third quarter	—	4,843	5,365	3,113	4,726	2,731
Fourth quarter	—	4,985	4,541	6,273	5,170	4,462

DOUBLE FILLING FLAT DUCKS³

1929	—	10,468	11,325	11,684	—	—
First quarter	—	2,669	2,962	2,924	1,276	1,539
Second quarter	—	2,524	2,884	2,379	916	1,034
Third quarter	—	2,553	2,692	3,684	777	2,026
Fourth quarter	—	2,722	2,787	2,697	713	1,937
1930	—	12,677	10,984	11,081	—	—
First quarter	—	3,614	3,486	3,359	803	1,810
Second quarter	—	3,460	3,166	2,393	1,097	1,037
Third quarter	—	2,794	2,057	1,955	1,756	1,051
Fourth quarter	—	2,809	2,275	3,374	2,290	2,151

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930—(Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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CANTON FLANNELS, FOR THE MITTEN TRADE²

1929		37,236	40,221	30,486	—	—
First quarter	.	—	11,308	10,384	9,759	7,234
Second quarter	.	—	9,746	9,422	4,351	7,558
Third quarter	.	—	7,860	10,156	11,396	5,262
Fourth quarter	.	—	8,322	10,259	4,980	3,325
1930		28,536	26,672	25,030	—	—
First quarter	.	—	10,293	9,665	9,003	3,953
Second quarter	.	—	8,694	6,769	5,569	5,878
Third quarter	.	—	4,737	4,619	3,697	5,996
Fourth quarter	.	—	4,812	5,619	6,761	5,189

GINGHAMS, CLASS A²

1929		442	5,220	8,457	7,657	—	—
First quarter	.	606	1,561	4,464	5,593	2,099	1,972
Second quarter	.	658	2,327	1,878	517	2,548	611
Third quarter	.	310	723	1,020	865	2,251	456
Fourth quarter	.	197	609	1,095	682	1,765	43
1930		221	2,354	2,135	2,122	—	—
First quarter	.	312	870	955	1,027	1,680	115
Second quarter	.	287	810	401	338	2,089	52
Third quarter	.	115	281	480	480	1,890	52
Fourth quarter	.	171	393	299	277	1,984	30

GINGHAMS, CLASS B²

1929		3,139	44,648	39,114	38,282	—	—
First quarter	.	3,029	10,758	8,881	10,655	13,521	10,344
Second quarter	.	3,691	14,297	7,870	4,392	19,948	6,866
Third quarter	.	3,270	10,868	11,863	15,774	18,953	10,777
Fourth quarter	.	2,567	8,725	10,500	7,461	17,178	7,738
1930		1,554	17,438	26,119	23,449	—	—
First quarter	.	2,214	7,162	11,329	8,675	13,011	5,084
Second quarter	.	1,373	4,037	6,907	4,776	10,141	2,953
Third quarter	.	1,262	2,906	2,684	3,752	10,363	4,021
Fourth quarter	.	1,368	3,333	5,199	6,246	8,497	5,068

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930—(Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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GINGHAMs, CLASS C²

1929	7,295	73,373	75,161	72,389	—	—
First quarter	8,075	22,615	25,536	28,511	15,932	17,266
Second quarter	8,149	24,519	18,757	13,904	21,694	12,413
Third quarter	6,026	12,812	15,701	15,154	18,805	11,866
Fourth quarter	6,929	13,427	15,167	14,820	17,065	11,519
1930	2,878	28,729	35,126	28,245	—	—
First quarter	6,184	13,192	14,727	9,431	15,530	6,223
Second quarter	2,924	8,441	7,201	5,447	16,770	4,469
Third quarter	1,283	3,641	6,180	4,661	14,231	2,950
Fourth quarter	1,121	3,455	7,018	8,706	10,668	4,638

GINGHAMs, CLASS D²

1929	448	4,131	4,950	4,597	—	—
First quarter	499	996	1,616	1,955	1,236	1,088
Second quarter	539	1,409	1,637	1,274	1,008	725
Third quarter	421	863	887	961	984	799
Fourth quarter	332	863	810	407	1,037	396
1930	238	2,323	2,267	2,085	—	—
First quarter	304	701	544	431	1,194	283
Second quarter	211	520	521	442	1,193	204
Third quarter	247	653	575	506	1,271	135
Fourth quarter	189	449	627	706	1,093	214

GINGHAMs, CLASS E²

1929	293	2,172	2,654	2,668	—	—
First quarter	497	851	1,061	1,541	3,105	630
Second quarter	398	760	754	312	3,111	188
Third quarter	101	194	301	353	3,004	240
Fourth quarter	176	367	538	462	2,833	164
1930	81	534	1,882	1,731	—	—
First quarter	149	277	904	809	2,206	69
Second quarter	81	150	101	59	2,255	27
Third quarter	51	55	810	788	1,500	5
Fourth quarter	41	52	67	75	1,485	13

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930—(Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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JEANS²

1929	2,121	29,944	32,744	31,753	—	—
First quarter	2,685	9,110	10,312	9,894	4,653	3,697
Second quarter	2,396	8,071	7,856	6,285	4,868	2,126
Third quarter	1,667	6,108	7,178	8,504	3,798	3,452
Fourth quarter	1,737	6,655	7,398	7,070	3,055	3,124
1930	2,107	27,541	26,075	24,256	—	—
First quarter	2,157	7,790	7,909	7,468	2,936	2,683
Second quarter	2,470	8,599	7,955	6,565	3,580	1,293
Third quarter	2,031	5,538	4,878	4,956	4,240	1,371
Fourth quarter	1,769	5,614	5,333	5,267	4,521	1,305

KHAKI TWILLS²

1929	—	17,638	18,473	18,409	—	—
First quarter	—	4,619	5,603	5,521	2,525	4,488
Second quarter	—	5,342	5,806	4,007	2,061	2,689
Third quarter	—	3,851	3,403	4,743	2,509	4,029
Fourth quarter	—	3,826	3,661	4,138	2,674	4,506
1930	—	15,061	15,310	13,579	—	—
First quarter	—	5,292	5,552	4,251	2,414	3,205
Second quarter	—	4,433	4,576	3,608	2,271	2,237
Third quarter	—	2,509	2,299	2,496	2,481	2,434
Fourth quarter	—	2,827	2,883	3,224	2,425	2,775

KHAKI, DRILLS²

1929	—	7,397	7,708	6,791	—	—
First quarter	—	2,249	2,275	1,765	1,353	2,363
Second quarter	—	1,865	2,183	1,722	1,035	1,902
Third quarter	—	1,863	2,080	2,262	818	2,084
Fourth quarter	—	1,420	1,170	1,042	1,068	1,956
1930	—	3,859	4,293	3,044	—	—
First quarter	—	975	1,200	1,018	843	1,774
Second quarter	—	1,615	1,576	755	882	953
Third quarter	—	776	865	819	793	907
Fourth quarter	—	493	652	452	634	707

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930—(Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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KHAKI, JEANS²

1929	—	11,652	13,009	12,005	—	—
First quarter	—	3,402	3,966	3,312	2,260	2,495
Second quarter	—	3,446	3,953	3,339	1,753	1,881
Third quarter	—	2,731	3,108	3,261	1,376	2,034
Fourth quarter	—	2,073	1,982	2,093	1,467	2,145
1930	—	7,720	8,357	7,109	—	—
First quarter	—	2,431	2,846	2,175	1,052	1,474
Second quarter	—	2,798	2,754	2,125	1,096	845
Third quarter	—	1,223	1,378	1,263	941	730
Fourth quarter	—	1,268	1,379	1,546	830	897

OSNABURGS, 30 INCHES, 7 OUNCES¹

1929	494	14,096	11,953	11,277	—	—
First quarter	291	2,466	2,703	2,709	2,762	720
Second quarter	491	3,494	3,848	4,520	2,408	1,392
Third quarter	644	4,431	3,936	3,076	2,903	532
Fourth quarter	552	3,705	1,466	972	5,142	38
1930	434	10,461	11,489	13,534	—	—
First quarter	263	2,003	2,857	3,373	4,288	554
Second quarter	605	3,656	4,090	4,419	3,854	883
Third quarter	571	3,136	2,778	2,012	4,212	117
Fourth quarter	299	1,673	1,764	3,730	4,121	2,083

TOTAL OSNABURGS, EXCLUDING 30 INCHES, 7 OUNCES¹

1929	2,772	62,321	60,599	57,439	—	—
First quarter	2,859	16,833	16,812	16,295	4,344	8,588
Second quarter	2,724	15,799	16,130	12,320	4,013	4,778
Third quarter	2,693	14,115	14,429	18,006	3,699	8,355
Fourth quarter	2,813	15,574	13,228	10,818	6,045	5,945
1930	2,491	53,622	52,424	53,970	—	—
First quarter	2,633	13,939	14,020	14,931	5,964	6,856
Second quarter	2,318	12,466	11,901	10,033	6,529	4,988
Third quarter	2,393	12,342	10,927	10,704	7,944	4,765
Fourth quarter	2,620	14,875	15,576	18,302	7,243	7,491

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930—(Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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PAJAMA CHECKS, 36½ INCHES, 72/80, 4.70 YARD¹

1929	—	28,934	30,433	33,675	—	—
First quarter	—	6,115	6,416	6,498	2,193	377
Second quarter	—	4,202	6,345	6,536	50	568
Third quarter	—	6,903	6,931	10,569	22	4,206
Fourth quarter	—	11,714	10,741	10,072	995	3,537
1930	—	29,519	27,526	24,069	—	—
First quarter	—	13,785	10,713	9,409	4,067	2,233
Second quarter	—	8,186	8,494	6,813	3,759	552
Third quarter	—	4,189	5,076	4,784	2,872	260
Fourth quarter	—	3,359	3,243	3,063	2,988	80

PAJAMA CHECKS, EXCLUDING 36½ INCHES, 72/80, 4.70 YARD¹

1929	—	18,345	21,556	23,564	—	—
First quarter	—	6,605	6,201	5,710	3,672	431
Second quarter	—	3,881	5,602	6,356	1,951	1,185
Third quarter	—	3,027	4,864	5,933	114	2,254
Fourth quarter	—	4,832	4,889	5,565	57	2,930
1930	—	21,506	19,641	17,486	—	—
First quarter	—	7,919	6,818	5,073	1,158	3,338
Second quarter	—	5,324	4,381	4,761	2,101	1,565
Third quarter	—	3,943	3,703	2,956	2,341	818
Fourth quarter	—	4,320	4,739	4,696	1,922	775

PLAIDS, 4.50 AND LIGHTER²

1929	476	7,306	7,104	6,242	—	—
First quarter	442	1,395	1,710	1,670	2,769	2,306
Second quarter	352	1,431	878	819	3,322	2,247
Third quarter	531	2,054	2,859	2,867	2,517	2,255
Fourth quarter	578	2,426	1,657	886	3,286	1,484
1930	292	3,692	5,555	4,492	—	—
First quarter	235	877	890	486	3,273	1,080
Second quarter	342	1,156	1,492	1,187	2,937	775
Third quarter	383	1,185	1,498	1,181	2,624	458
Fourth quarter	207	474	1,675	1,638	1,423	421

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930—(Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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PRINT CLOTH FANCIES¹

1929	10,510	116,623	113,342	109,014	—	—
First quarter	11,105	29,494	30,302	36,292	2,952	26,313
Second quarter	11,407	30,741	30,010	26,332	3,683	22,635
Third quarter	10,347	28,075	25,194	25,219	6,564	22,660
Fourth quarter	9,183	28,313	27,836	21,171	7,041	15,995
1930	5,948	71,816	71,450	64,889	—	—
First quarter	8,553	25,870	23,654	19,296	9,257	11,637
Second quarter	5,838	17,179	14,949	12,390	11,487	9,078
Third quarter	4,581	13,100	14,576	14,598	10,011	9,100
Fourth quarter	4,822	15,667	18,271	18,605	7,407	9,434

PRINT CLOTHS, NARROWER THAN 36 INCHES—27 INCHES, 64/60, 7.60 YARD¹

1929	2,374	40,839	31,820	27,163	—	—
First quarter	3,632	14,882	13,752	10,699	2,747	3,748
Second quarter	2,414	10,807	7,611	4,781	5,943	918
Third quarter	1,434	6,198	6,641	6,936	5,500	1,213
Fourth quarter	2,017	8,952	3,816	4,747	10,636	2,144
1930	1,479	21,017	28,983	28,660	—	—
First quarter	1,725	6,718	6,719	8,561	10,635	3,986
Second quarter	1,000	4,074	7,492	4,672	7,217	1,166
Third quarter	1,261	3,494	8,092	8,912	2,619	1,986
Fourth quarter	1,931	6,731	6,680	6,515	2,670	1,821

PRINT CLOTHS, NARROWER THAN 36 INCHES—EXCLUDING 27 INCHES, 64/60, 7.60 YARD¹

1929	5,182	100,705	99,210	95,713	—	—
First quarter	5,413	24,139	24,764	27,320	9,176	13,742
Second quarter	5,938	28,000	27,997	26,945	9,179	12,690
Third quarter	4,831	25,815	28,644	25,353	6,350	9,399
Fourth quarter	4,544	22,751	17,805	16,095	11,296	7,689
1930	4,174	69,612	73,565	78,509	—	—
First quarter	4,398	19,408	22,045	23,774	8,659	9,418
Second quarter	3,858	16,723	17,059	17,815	8,323	10,174
Third quarter	3,967	15,740	17,566	14,771	6,497	7,379
Fourth quarter	4,473	17,741	16,895	22,149	7,343	12,633

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930—(Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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PRINT CLOTHS, 36 INCHES AND WIDER—38½ INCHES, 64/60, 5.35 YARD¹

1929		16,888	301,965	289,448	302,079	—	—
First quarter	.	15,244	66,902	72,595	77,164	4,200	27,478
Second quarter	.	17,016	80,126	78,843	63,004	5,483	11,639
Third quarter	.	16,122	70,858	71,624	74,848	4,717	14,863
Fourth quarter	.	19,168	84,079	66,386	87,063	22,410	35,540
1930		15,910	260,381	269,806	254,220	—	—
First quarter	.	19,040	81,033	84,208	74,260	19,235	25,592
Second quarter	.	15,858	67,979	58,711	38,727	28,503	5,608
Third quarter	.	14,124	55,446	62,262	91,032	21,687	34,378
Fourth quarter	.	14,619	55,923	64,625	50,201	12,985	19,954

PRINT CLOTHS, 36 INCHES AND WIDER—39 INCHES, 68/72, 4.75 YARD¹

1929		12,090	185,672	184,276	190,268	—	—
First quarter	.	16,232	64,307	63,493	64,638	7,906	14,712
Second quarter	.	11,456	43,453	45,899	42,019	5,460	10,832
Third quarter	.	9,297	34,016	38,617	39,492	859	11,707
Fourth quarter	.	11,374	43,896	36,267	44,119	8,488	19,559
1930		11,758	159,163	162,632	150,114	—	—
First quarter	.	15,171	58,271	53,835	45,326	12,924	11,050
Second quarter	.	12,205	45,377	42,370	33,700	15,931	2,380
Third quarter	.	10,173	27,077	29,718	36,962	13,290	9,624
Fourth quarter	.	9,482	28,438	36,709	34,126	5,019	7,041

**PRINT CLOTHS, 36 INCHES AND WIDER, EXCLUDING 38½ INCHES, 64/60, 5.35 YARD,
AND 39 INCHES, 68/72, 4.75 YARD¹**

1929		30,176	575,573	548,285	559,611	—	—
First quarter	.	33,830	154,883	168,252	171,980	24,951	68,062
Second quarter	.	31,323	148,046	142,006	131,714	30,991	57,770
Third quarter	.	30,344	138,173	135,681	132,785	33,483	54,874
Fourth quarter	.	25,213	134,471	102,346	123,132	65,608	75,660
1930		26,330	473,239	503,471	486,254	—	—
First quarter	.	27,142	124,943	145,005	134,984	45,546	65,639
Second quarter	.	27,481	123,636	120,554	93,693	48,628	38,778
Third quarter	.	25,563	97,716	111,764	132,535	34,580	59,549
Fourth quarter	.	25,135	126,944	126,148	125,042	35,376	58,443

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930—(Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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HEAVY WARP SATEENS²

1929	815	12,306	12,825	12,449	—	—
First quarter . .	912	3,373	3,950	3,387	584	731
Second quarter . .	871	3,117	2,647	2,433	1,054	517
Third quarter . .	697	2,486	3,072	4,015	468	1,460
Fourth quarter . .	778	3,330	3,156	2,614	642	918
1930	648	9,392	9,338	9,019	—	—
First quarter . .	759	2,841	2,388	2,089	1,095	619
Second quarter . .	515	1,796	1,551	1,161	1,340	229
Third quarter . .	461	1,282	2,087	2,975	535	1,117
Fourth quarter . .	857	3,473	3,312	2,794	696	599

SATEENS, WIDER THAN 40 INCHES²

1929	1,261	13,251	12,844	10,951	—	—
First quarter . .	1,849	4,876	4,800	3,885	570	2,775
Second quarter . .	1,336	3,838	3,314	1,945	1,094	1,406
Third quarter . .	839	2,377	2,813	3,157	658	1,750
Fourth quarter . .	1,019	2,160	1,917	1,964	901	1,797
1930	1,066	9,238	8,744	7,879	—	—
First quarter . .	1,122	2,209	2,583	2,279	527	1,493
Second quarter . .	1,119	2,575	2,538	2,542	564	1,497
Third quarter . .	1,090	2,447	1,765	1,456	1,246	1,188
Fourth quarter . .	934	2,007	1,858	1,602	1,395	932

SHEETINGS, WIDER THAN 40 INCHES²

1929	3,942	60,910	55,612	56,604	—	—
First quarter . .	3,760	15,042	15,108	15,643	2,543	10,131
Second quarter . .	3,850	16,137	13,744	10,473	4,936	6,860
Third quarter . .	4,166	15,350	13,642	16,541	6,644	9,759
Fourth quarter . .	3,975	14,381	13,118	13,947	7,907	10,588
1930	3,623	49,231	51,592	47,951	—	—
First quarter . .	4,154	15,056	16,475	16,969	6,488	11,082
Second quarter . .	3,842	13,681	13,889	7,937	6,280	5,130
Third quarter . .	3,331	10,421	8,574	9,877	8,127	6,433
Fourth quarter . .	3,166	10,073	12,654	13,168	5,546	6,947

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930—(Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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SHEETINGS, 40 INCHES AND NARROWER, CLASS A (YARN NOS. UP TO 15S INCLUSIVE) 40 INCHES, 48/48, 2.85 YARD²

1929	2,867	50,473	45,658	42,987	—	—
First quarter	3,112	13,828	14,230	15,400	915	6,824
Second quarter	3,200	14,568	11,491	7,584	3,992	2,917
Third quarter	2,605	11,229	11,197	11,071	4,024	2,791
Fourth quarter	2,554	10,848	8,740	8,932	6,132	2,983
1930	2,358	33,662	37,220	36,840	—	—
First quarter	2,329	8,481	12,062	13,769	2,551	4,690
Second quarter	2,264	8,104	9,130	6,408	1,525	1,968
Third quarter	2,259	7,463	7,241	8,635	1,747	3,362
Fourth quarter	2,582	9,614	8,787	8,028	2,574	2,603

SHEETINGS, 40 INCHES AND NARROWER, CLASS A (YARN NOS. UP TO 15S INCLUSIVE) EXCLUDING 40 INCHES, 48/48, 2.85 YARD²

1929	4,823	85,511	86,215	85,515	—	—
First quarter	5,277	22,950	23,355	24,546	10,897	8,646
Second quarter	4,885	21,902	20,921	18,444	11,878	6,169
Third quarter	4,429	19,789	23,201	24,529	8,466	7,497
Fourth quarter	4,697	20,870	18,738	17,996	10,598	6,755
1930	4,863	78,488	76,428	76,513	—	—
First quarter	4,980	19,753	21,324	22,728	9,027	8,159
Second quarter	4,789	19,454	17,322	11,992	11,159	2,829
Third quarter	4,213	15,660	17,075	19,787	9,744	5,541
Fourth quarter	5,469	23,621	20,707	22,006	12,658	6,840

SHEETINGS, 40 INCHES AND NARROWER, CLASS B (YARN NOS. 16S TO 21S INCLUSIVE) 36 TO 37 INCHES, 48/48, 4.00 YARD²

1929	2,922	54,939	57,554	55,262	—	—
First quarter	3,792	17,379	14,889	16,947	9,932	9,175
Second quarter	2,840	13,063	12,769	10,875	10,226	7,281
Third quarter	2,283	11,067	17,427	16,732	3,866	6,586
Fourth quarter	2,774	13,430	12,469	10,708	4,827	4,825
1930	2,938	46,079	45,432	45,359	—	—
First quarter	2,841	12,164	10,475	12,135	6,516	6,485
Second quarter	2,677	10,324	9,608	7,752	7,232	4,629
Third quarter	2,952	10,431	13,914	16,632	3,749	7,347
Fourth quarter	3,281	13,160	11,435	8,840	5,474	4,752

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930—(Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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**SHEETINGS, 40 INCHES AND NARROWER, CLASS B (YARN NOS. 16s TO 21s INCLUSIVE)
EXCLUDING 36 TO 37 INCHES, 48/48, 4.00 YARD²**

1929						
First quarter	.	5,203	107,957	108,207	103,379	—
Second quarter	.	5,251	28,003	31,660	32,904	6,879
Third quarter	.	5,116	27,043	25,234	22,042	8,688
Fourth quarter	.	4,641	23,083	27,565	32,245	4,206
		5,802	29,828	23,748	16,188	10,286
1930						
First quarter	.	5,133	94,160	91,969	93,838	—
Second quarter	.	5,898	28,639	26,837	33,306	12,088
Third quarter	.	4,868	21,976	22,816	18,647	11,248
Fourth quarter	.	4,764	20,225	21,185	23,761	10,288
		5,002	23,320	21,131	18,124	12,477

**SHEETINGS, 40 INCHES AND NARROWER, CLASS C (YARN NOS. ABOVE 21s), 36 INCHES,
44/40, 44/44, 40/40, 6.05 TO 6.15 YARD²**

1929						
First quarter	.	4,073	110,563	111,207	112,794	—
Second quarter	.	4,723	30,350	26,776	41,115	12,793
Third quarter	.	4,031	28,378	36,795	30,665	4,376
Fourth quarter	.	3,700	25,435	26,719	23,869	3,092
		3,838	26,400	20,917	17,145	8,575
1930						
First quarter	.	3,317	82,867	85,777	85,751	—
Second quarter	.	4,288	27,650	24,888	32,214	11,337
Third quarter	.	3,395	24,005	26,601	18,020	8,741
Fourth quarter	.	2,911	15,101	16,708	17,634	7,134
		2,673	16,111	17,580	17,883	5,665

**SHEETINGS, 40 INCHES AND NARROWER, CLASS C (YARN NOS. ABOVE 21s), EXCLUDING
36 INCHES, 44/40, 44/44, 40/40, 6.05 TO 6.15 YARD²**

1929						
First quarter	.	18,976	350,956	356,086	347,318	—
Second quarter	.	19,826	90,046	103,063	97,790	40,214
Third quarter	.	19,425	88,347	84,811	83,279	43,750
Fourth quarter	.	17,776	83,769	90,163	97,324	37,356
		18,876	88,794	78,049	68,925	48,101
1930						
First quarter	.	17,539	286,597	288,140	280,627	—
Second quarter	.	19,255	87,139	88,606	99,173	46,634
Third quarter	.	17,093	75,067	70,052	47,902	51,649
Fourth quarter	.	16,026	57,983	58,060	57,033	51,572
		17,783	66,408	71,422	76,519	46,558

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930—(Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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WIDE BROWN SHEETINGS, 45 INCHES⁴

1929	—	11,383	11,044	10,945	—	—
First quarter	—	3,602	3,058	2,917	4,411	819
Second quarter	—	2,970	2,316	2,132	5,065	635
Third quarter	—	1,968	2,635	3,279	4,398	1,279
Fourth quarter	—	2,843	3,035	2,617	4,206	861
1930	—	9,552	10,374	10,319	—	—
First quarter	—	2,213	2,519	2,729	3,905	1,071
Second quarter	—	2,052	2,044	1,869	3,913	896
Third quarter	—	2,103	2,492	2,725	3,524	1,129
Fourth quarter	—	3,184	3,319	2,996	3,389	806

WIDE BROWN SHEETINGS, 72 INCHES⁴

1929	—	14,386	13,850	13,517	—	—
First quarter	—	4,570	4,150	4,119	2,941	1,564
Second quarter	—	2,624	1,671	1,353	3,894	1,246
Third quarter	—	3,455	4,079	4,155	3,270	1,322
Fourth quarter	—	3,737	3,950	3,890	3,057	1,262
1930	—	15,523	14,851	14,667	—	—
First quarter	—	4,657	3,855	4,184	3,859	1,591
Second quarter	—	4,248	3,670	3,421	4,437	1,342
Third quarter	—	3,308	3,475	3,279	4,270	1,146
Fourth quarter	—	3,310	3,851	3,783	3,729	1,078

WIDE BROWN SHEETINGS, 81 INCHES⁴

1929	—	24,553	25,166	25,268	—	—
First quarter	—	6,446	6,868	6,770	6,541	1,797
Second quarter	—	6,028	5,000	5,234	7,569	2,031
Third quarter	—	5,469	6,912	7,654	6,126	2,773
Fourth quarter	—	6,610	6,386	5,610	6,350	1,997
1930	—	21,385	21,528	21,055	—	—
First quarter	—	5,800	5,550	5,546	6,600	1,993
Second quarter	—	5,613	5,361	4,837	6,852	1,469
Third quarter	—	4,663	5,259	5,244	6,256	1,454
Fourth quarter	—	5,309	5,358	5,428	6,207	1,524

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930—(Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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WIDE BROWN SHEETINGS, 90 INCHES⁴

1929	—	52,915	52,204	52,989	—	—
First quarter	—	13,793	12,986	12,995	13,465	3,915
Second quarter	—	12,907	10,732	10,628	15,640	3,811
Third quarter	—	11,891	15,420	18,487	12,111	6,878
Fourth quarter	—	14,324	13,066	10,879	13,369	4,691
1930	—	48,744	50,912	50,525	—	—
First quarter	—	13,068	12,524	11,931	12,982	4,098
Second quarter	—	11,641	11,670	10,812	12,953	3,240
Third quarter	—	11,958	14,255	15,662	10,656	4,647
Fourth quarter	—	12,077	12,463	12,120	10,270	4,304

WIDE BROWN SHEETINGS, EXCLUDING 45 INCHES, 72 INCHES, 81 INCHES AND 90 INCHES

1929	—	29,093	31,948	33,263	—	—
First quarter	—	7,592	8,556	11,476	10,625	11,518
Second quarter	—	8,229	7,770	9,871	11,084	13,619
Third quarter	—	6,338	7,067	7,201	10,355	13,753
Fourth quarter	—	6,934	8,555	4,715	8,734	9,913
1930	—	21,901	21,857	19,902	—	—
First quarter	—	6,721	5,801	10,304	10,580	14,416
Second quarter	—	6,179	5,667	424	1,092	9,173
Third quarter	—	5,212	6,373	6,031	9,931	8,831
Fourth quarter	—	3,789	4,016	3,143	9,704	7,958

BED TICKINGS, CLASS A, 32 INCHES, 2.00 YARD²

1929	—	6,402	6,949	5,874	—	—
First quarter	—	1,833	2,162	1,477	1,683	888
Second quarter	—	1,801	1,204	775	2,280	459
Third quarter	—	1,351	2,088	2,600	1,543	971
Fourth quarter	—	1,417	1,495	1,022	1,465	498
1930	—	5,000	5,505	5,626	—	—
First quarter	—	1,490	1,438	1,473	1,517	533
Second quarter	—	1,114	1,213	1,165	1,418	485
Third quarter	—	838	1,350	1,461	906	596
Fourth quarter	—	1,558	1,504	1,527	960	619

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1929 and 1930—(Concluded)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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BED TICKINGS, EXCLUDING CLASS A, 32 INCHES, 2.00 YARD²

1929	—	3,994	4,933	4,848	—	—
First quarter	—	722	1,042	994	1,818	509
Second quarter	—	681	1,091	902	1,408	320
Third quarter	—	912	1,486	1,869	834	703
Fourth quarter	—	1,679	1,314	1,083	1,199	472
1930	—	3,362	3,753	3,532	—	—
First quarter	—	1,131	916	846	1,414	402
Second quarter	—	431	966	764	879	200
Third quarter	—	736	990	1,132	625	342
Fourth quarter	—	1,064	881	790	808	251

FOUR-LEAF TWILLS²

1929	—	2,774	41,053	39,088	38,874	—	—
First quarter	—	2,674	9,728	9,518	9,233	4,012	5,008
Second quarter	—	2,995	11,020	10,000	7,441	5,032	2,449
Third quarter	—	2,783	10,193	10,419	13,034	4,806	5,064
Fourth quarter	—	2,646	10,112	9,151	9,166	5,767	5,079
1930	—	2,201	31,996	30,177	26,559	—	—
First quarter	—	2,686	10,560	10,782	9,219	5,545	3,516
Second quarter	—	2,230	8,359	7,933	6,216	5,971	1,799
Third quarter	—	1,870	6,129	5,421	5,881	6,679	2,259
Fourth quarter	—	2,019	6,948	6,041	5,243	7,586	1,461

POCKETING TWILLS²

1929	—	2,134	23,127	20,537	24,518	—	—
First quarter	—	859	1,824	2,958	2,957	1,382	1,508
Second quarter	—	1,013	2,131	2,533	1,707	980	682
Third quarter	—	1,971	4,943	1,725	8,850	4,198	7,807
Fourth quarter	—	4,693	14,229	13,321	11,004	5,106	5,490
1930	—	4,142	48,346	48,345	45,176	—	—
First quarter	—	4,994	15,636	15,713	15,043	5,029	4,820
Second quarter	—	4,401	13,328	12,711	9,377	5,646	1,486
Third quarter	—	3,315	7,796	9,609	10,970	3,833	2,847
Fourth quarter	—	3,858	11,586	10,312	9,786	5,107	2,321

¹ Compiled by The Association of Cotton Textile Merchants of New York and The Cotton-Textile Institute, Inc.

² Compiled by The Association of Cotton Textile Merchants of New York.

³ January 1, 1928 to May 9, 1929, compiled by The Association of Cotton Textile Merchants of New York, and thereafter by The Cotton-Textile Institute, Inc.

⁴ Compiled by The Cotton-Textile Institute, Inc.

Production, Shipments, Sales, Stocks and Orders of Soft Yarns—
All Numbers, Single and Ply (Class A)

[Knitting Yarns only]

The Cotton-Textile Institute, Inc.

WEEK ENDED, 1930	Spindles Operating (Average Number)	THOUSANDS OF POUNDS				
		Pro- duc- tion	Sales	Ship- ments	Stock on Hand	Unfilled Orders
January	4	499,447	1,555	1,144	1,479	3,345
	11	522,810	1,617	1,656	1,352	3,610
	18	492,793	1,536	2,377	1,746	3,400
	25	473,693	1,395	605	1,233	3,572
February	1	474,873	1,425	1,825	1,261	3,736
	8	466,409	1,376	2,755	1,287	3,661
	15	492,786	1,415	2,033	1,236	3,840
	22	481,976	1,376	1,302	1,240	3,976
March	1	467,507	1,242	645	1,029	4,189
	8	489,279	1,299	1,131	1,214	4,274
	15	492,233	1,281	1,041	1,046	4,509
	22	495,540	1,356	1,929	1,285	4,580
	29	503,746	1,365	948	1,495	4,450
April	5	503,723	1,290	1,334	1,313	4,427
	12	506,609	1,358	658	1,097	4,688
	19	486,791	1,261	658	1,134	4,815
	26	447,539	1,225	665	1,190	4,850
May	3	475,882	1,189	488	1,267	4,772
	10	474,530	1,108	683	1,105	4,775
	17	452,047	1,030	178	948	4,857
	24	494,957	1,081	560	1,026	4,912
	31	454,312	1,128	926	1,144	4,896
June	7	450,026	1,029	267	1,041	4,884
	14	432,918	977	1,330	1,087	4,774
	21	458,207	989	634	835	4,928
	28	436,237	965	740	1,061	4,832
July	5	305,712	602	1,003	681	4,753
	12	365,545	776	379	845	4,684
	19	462,790	1,111	395	992	4,803
	26	453,399	973	474	982	4,794
August	2	456,058	980	1,105	1,182	4,592
	9	409,543	917	663	833	4,676
	16	436,941	938	1,002	1,068	4,546
	23	458,049	935	1,086	813	4,668
	30	432,122	991	1,341	1,238	4,421
September	6	427,832	936	1,536	1,159	4,198
	13	502,723	1,085	2,015	1,096	4,187
	20	517,620	1,167	1,814	1,318	4,036
	27	522,267	1,280	2,156	1,424	3,892
October	4	506,413	1,202	799	1,232	3,862
	11	511,204	1,296	1,030	1,269	3,889
	18	497,122	1,360	1,012	1,124	4,125
	25	504,617	1,309	1,973	1,344	4,090
November	1	513,073	1,404	1,691	1,412	4,082
	8	509,384	1,296	1,778	1,251	4,127
	15	518,303	1,410	1,858	1,292	4,245
	22	509,837	1,349	931	1,386	4,208
	29	500,349	1,058	1,095	1,122	4,144
December	6	499,986	1,253	1,061	1,162	4,235
	13	500,622	1,254	986	1,029	4,460
	20	481,288	1,234	1,173	1,030	4,664
	27	124,584	222	168	203	4,683

**Production, Shipments, Sales, Stocks and Orders of Hard Yarns—
18's and Coarser (Class B)**

[Weaving Yarns only]

The Cotton-Textile Institute, Inc.

WEEK ENDED, 1930	Spindles Operating (Average Number)	THOUSANDS OF POUNDS					
		Pro- duc- tion	Sales	Ship- ments	Stock on Hand	Unfilled Orders	
January	4	282,007	1,165	766	1,359	4,359	10,729
	11	275,705	1,201	1,130	984	4,576	10,875
	18	265,067	1,156	265	1,147	4,585	9,993
	25	269,152	1,248	1,293	1,310	4,523	9,976
February	1	290,263	1,306	1,170	1,221	4,608	9,925
	8	277,887	1,186	1,428	1,402	4,392	9,951
	15	280,607	1,129	1,458	1,072	4,449	10,337
	22	257,332	1,124	1,164	971	4,602	10,530
March	1	272,138	1,122	658	1,080	4,644	10,108
	8	267,889	1,118	1,251	1,122	4,640	10,237
	15	266,820	1,080	853	1,033	4,687	10,057
	22	261,768	1,072	1,394	1,041	4,718	10,410
	29	258,785	1,051	785	897	4,872	10,298
April	5	247,834	901	519	1,149	4,624	9,668
	12	248,208	935	521	882	4,677	9,307
	19	232,494	831	1,006	751	4,757	9,562
	26	240,413	833	800	792	4,798	9,570
May	3	245,319	845	370	1,001	4,642	8,939
	10	248,920	907	422	856	4,693	8,505
	17	249,068	909	981	931	4,671	8,555
	24	256,576	951	707	913	4,709	8,349
	31	251,964	978	570	1,047	4,640	7,872
June	7	254,215	888	591	851	4,677	7,612
	14	253,426	934	752	919	4,692	7,445
	21	242,682	907	884	994	4,605	7,335
	28	258,023	1,030	997	973	4,662	7,359
July	5	127,749	336	476	328	4,670	7,507
	12	206,425	837	1,441	873	4,634	8,075
	19	222,769	856	724	826	4,664	7,973
	26	230,090	875	757	903	4,636	7,827
August	2	220,653	848	700	722	4,762	7,805
	9	210,077	812	1,240	782	4,792	8,263
	16	226,325	807	944	741	4,858	8,466
	23	250,939	893	829	825	4,926	8,470
	30	230,506	888	1,960	994	4,870	9,486
September	6	226,108	893	755	1,040	4,723	9,201
	13	229,446	848	1,295	722	4,849	9,774
	20	227,670	891	1,508	1,010	4,730	10,272
	27	234,294	951	1,112	1,130	4,551	10,254
October	4	231,020	923	803	951	4,523	10,106
	11	222,971	956	2,102	967	4,512	11,241
	18	208,331	909	672	716	4,705	11,197
	25	204,509	896	1,803	892	4,709	12,108
November	1	203,282	920	2,120	1,000	4,629	13,228
	8	211,386	876	779	944	4,561	13,063
	15	206,629	844	1,063	858	4,547	13,268
	22	201,692	818	798	830	4,535	13,236
	29	196,101	730	1,321	897	4,368	13,660
December	6	199,189	835	730	895	4,308	13,495
	13	206,023	807	1,047	732	4,383	13,810
	20	208,536	845	582	692	4,536	13,700
	27	156,455	361	659	447	4,450	13,912

Production, Shipments, Sales, Stocks and Orders of Hard Yarns—
20's and Finer (Class C)

[Weaving Yarns only]

The Cotton-Textile Institute, Inc.

WEEK ENDED, 1930	Spindles Operating (Average Number)	THOUSANDS OF POUNDS				
		Pro- duc- tion	Sales	Ship- ments	Stock on Hand	Unfilled Orders
January 4	548,990	984	945	855	2,172	9,060
11	574,294	1,078	393	967	2,283	8,486
18	594,889	1,071	1,254	938	2,416	8,802
25	564,665	1,030	1,313	957	2,489	9,158
February 1	569,359	1,034	1,037	1,094	2,429	9,101
8	578,482	1,029	464	700	2,758	8,865
15	559,154	1,039	1,036	879	2,918	9,022
22	553,443	1,019	1,592	962	2,975	9,652
March 1	565,006	1,080	315	1,045	3,010	8,922
8	553,365	1,029	803	948	3,091	8,777
15	561,749	967	940	848	3,210	8,869
22	582,555	1,038	1,101	896	3,352	9,074
29	579,479	1,051	1,020	1,238	3,165	8,856
April 5	584,192	1,012	446	934	3,243	8,368
12	561,614	1,015	681	953	3,305	8,096
19	576,639	931	674	833	3,403	7,937
26	574,122	898	934	520	3,781	8,351
May 3	581,362	961	487	1,040	3,702	7,798
10	578,152	965	450	884	3,783	7,364
17	540,223	874	413	790	3,867	6,987
24	558,030	870	650	788	3,949	6,849
31	548,450	877	544	923	3,903	6,470
June 7	543,112	850	667	828	3,925	6,309
14	541,020	803	440	874	3,854	5,875
21	463,796	759	549	670	3,943	5,754
28	504,912	837	443	715	4,065	5,482
July 5	224,086	283	496	280	4,068	5,698
12	472,302	624	358	532	4,160	5,524
19	496,320	660	292	528	4,292	5,288
26	497,633	666	594	587	4,371	5,295
August 2	472,501	622	509	605	4,388	5,199
9	395,735	577	891	682	4,283	5,408
16	467,100	710	670	686	4,307	5,392
23	487,438	805	1,018	673	4,439	5,737
30	448,560	758	1,130	855	4,342	6,012
September 6	466,312	717	759	726	4,333	6,045
13	458,405	773	988	704	4,402	6,329
20	485,568	792	730	830	4,364	6,229
27	507,531	815	1,385	803	4,376	6,811
October 4	503,562	891	692	915	4,352	6,588
11	490,481	777	1,309	878	4,251	7,019
18	511,658	872	1,350	1,009	4,114	7,360
25	511,446	887	1,156	987	4,014	7,529
November 1	505,765	892	1,913	1,069	3,837	8,373
8	505,047	891	918	852	3,876	8,439
15	495,877	861	1,028	713	4,024	8,754
22	512,759	873	656	853	4,044	8,557
29	504,942	781	634	789	4,036	8,402
December 6	520,260	805	912	727	4,114	8,587
13	506,150	842	387	761	4,195	8,213
20	478,102	828	789	791	4,232	8,211
27	250,286	296	99	130	4,398	8,180

United States Production of the Principal Cotton

Source: United States

Quantity for leading States that can be shown separately

	1925		
	Pounds	Square Yards	Value
Woven Goods (over 12 inches in width), total	2,070,985,006	7,564,603,562	\$1,245,139,031
Shirtings (all cotton)	87,256,178	372,106,936	56,534,114
Connecticut	2,905,855	14,484,323	2,316,634
Massachusetts	15,192,984	72,346,499	14,647,318
Rhode Island	3,497,762	16,038,550	3,649,484
South Carolina	20,296,222	89,417,537	10,690,361
North Carolina and Virginia	— ¹	— ¹	— ¹
All other States	45,363,355	44,370,159	25,230,317
Average single yarn-count, 40's and under	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
Rhode Island	— ¹	— ¹	— ¹
South Carolina	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Average single yarn-count, 41's and over	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
North Carolina, South Carolina and Virginia	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Shirtings in chief value of cotton (rayon-striped)	14,558,710	72,423,104	15,737,988
Massachusetts	4,138,852	22,157,363	5,773,072
North Carolina	3,274,419	14,341,728	2,471,202
South Carolina	4,539,045	23,537,288	3,866,904
All other States	2,606,394	12,386,725	3,626,810
Average single yarn-count, 40's and under	— ¹	— ¹	— ¹
North Carolina, South Carolina and Texas	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Average single yarn-count, 41's and over	— ¹	— ¹	— ¹
Shirtings in chief value of cotton (silk striped)	1,823,383	10,866,710	3,484,787
Fabrics other than shirtings and draperies in chief value of cotton containing rayon	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
Rhode Island	— ¹	— ¹	— ¹
North Carolina and South Carolina	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Average single yarn-count, 40's and under	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
Rhode Island	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Average single yarn-count, 41's and over	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
Rhode Island	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹

¹ Not reported.

Piece Goods; and Yarns for Sale, 1925, 1927 and 1929

Bureau of the Census

without disclosing the operations of individual establishments

1927			1929		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
2,433,709,519 ²	8,800,673,996	\$1,183,760,651	2,366,518,514 ²	8,284,317,582	\$1,139,979,533
74,087,731	299,453,436	38,953,426	66,565,859	265,830,195	37,339,976
530,402	2,662,331	479,158	263,896	1,490,200	260,877
6,301,252	31,480,625	6,117,950	4,621,939	21,887,902	4,085,348
3,034,040	16,271,724	3,304,237	3,620,930	17,009,012	3,412,328
9,642,730	44,540,940	4,603,472	8,702,138	38,874,052	4,957,901
— ¹	— ¹	— ¹	38,743,703	143,885,033	17,816,122
54,579,307	204,497,816	24,448,609	10,613,253	42,683,996	6,807,400
67,501,385	264,555,168	31,896,766	56,122,444	219,094,649	29,357,612
2,565,087	11,519,980	2,082,459	1,577,720	7,496,583	1,415,361
— ¹	— ¹	— ¹	24,620,486	92,945,912	11,013,300
— ¹	— ¹	— ¹	2,293,795	10,739,517	2,121,811
— ¹	— ¹	— ¹	5,268,729	24,609,475	2,901,930
64,936,298	253,035,188	29,814,307	22,361,714	83,303,162	11,905,210
6,586,346	34,898,268	7,056,660	10,443,415	46,735,546	7,982,364
3,736,165	19,906,645	4,035,491	3,044,219	14,391,319	2,669,987
— ¹	— ¹	— ¹	4,076,462	17,324,683	2,608,691
2,805,181	14,937,623	3,021,169	3,322,734	15,019,544	2,703,686
16,071,059	74,559,122	15,438,542	11,707,718	49,837,594	8,116,818
4,711,386	23,279,894	5,512,390	1,576,455	7,872,703	1,785,674
5,039,075	21,614,384	3,860,756	4,862,317	19,684,189	2,737,675
3,274,712	14,884,823	2,845,976	4,582,449	19,180,532	2,879,401
3,045,886	14,780,021	3,219,420	686,497	3,100,170	714,068
12,216,295	55,349,623	10,625,024	10,146,437	42,258,500	6,269,242
— ¹	— ¹	— ¹	8,648,005	34,815,016	4,608,950
— ¹	— ¹	— ¹	1,498,432	7,443,484	1,660,292
3,854,764	19,209,499	4,813,518	1,561,281	7,579,094	1,847,576
823,011	4,517,608	1,045,202	213,259	1,377,803	314,447
32,795,542	163,824,938	41,644,800	21,963,487	111,979,184	28,984,042
14,394,466	80,650,864	17,614,423	7,676,546	44,934,955	12,027,133
3,504,659	15,527,191	6,004,986	2,193,277	11,761,289	3,701,060
7,920,898	34,206,431	7,015,149	6,403,078	24,823,346	5,825,769
6,975,519	33,440,452	11,010,242	5,690,586	30,459,594	7,430,080
19,286,378	90,126,874	22,566,173	16,062,133	74,416,488	19,789,604
5,195,482	33,340,748	7,949,135	4,818,260	30,495,678	7,960,276
— ¹	— ¹	— ¹	3,285,643	9,555,373	2,363,114
2,591,363	9,328,317	4,019,178	863,115	2,984,829	1,638,314
11,499,533	47,457,809	10,597,860	7,095,115	31,380,608	7,827,900
13,509,164	73,698,064	19,078,627	5,901,354	37,562,696	9,194,438
9,198,984	47,301,116	9,665,288	2,858,236	14,439,277	4,066,857
913,296	6,198,874	1,955,808	1,330,162	8,776,460	2,062,746
3,396,884	20,189,074	7,427,531	1,712,906	14,346,959	3,064,835

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

	1925		
	Pounds	Square Yards	Value
Woven Goods— <i>continued</i>			
Fabrics other than shirtings and draperies in chief value of cotton containing silk	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Fabrics (except draperies) entirely or in chief value of rayon	— ¹	— ¹	— ¹
Connecticut	— ¹	— ¹	— ¹
Rhode Island	— ¹	— ¹	— ¹
Massachusetts and New Hampshire	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Other woven fabrics (over 12 inches in width)	148,275,314	750,787,369	\$155,201,900
Georgia	— ¹	— ¹	— ¹
Maine	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
South Carolina	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Average single yarn-count, 40's and under	— ¹	— ¹	— ¹
Maine	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
South Carolina	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Average single yarn count, 41's and over	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
South Carolina	— ¹	— ¹	— ¹
Connecticut and Rhode Island	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Average single yarn count, 40's and under	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
New Hampshire	— ¹	— ¹	— ¹
South Carolina	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Average single yarn-count, 41's and over	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
South Carolina	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹

¹ Not reported.

Goods; and Yarns for Sale, 1925, 1927 and 1929—(Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1927			1929		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
4,380,716	31,724,227	\$8,124,348	5,096,458	39,581,269	\$7,564,793
3,272,499	21,825,966	5,695,115	4,122,795	31,654,902	6,088,663
1,108,217	9,898,261	2,429,233	973,663	7,926,367	1,476,130
20,509,177	117,052,733	36,300,172	14,843,679	85,664,430	24,160,789
2,102,796	13,859,941	4,610,186	987,449	5,648,684	1,908,279
2,822,778	11,768,708	4,843,719	2,914,071	18,370,311	5,494,759
— ¹	— ¹	— ¹	6,765,710	38,985,528	8,875,033
15,583,603	91,424,084	26,846,267	4,176,449	22,659,907	7,882,718
84,010,492	438,655,595	62,139,854	71,472,241	298,065,247	44,608,331
14,200,041	44,103,456	4,931,896	8,288,939	29,991,256	3,190,878
— ¹	— ¹	— ¹	4,443,095	13,163,314	1,785,187
21,637,171	184,125,854	24,330,808	13,313,838	75,197,599	12,356,710
16,671,234	59,553,702	7,816,894	15,254,362	51,724,722	7,490,135
5,412,221	35,784,324	4,202,368	5,634,564	29,719,548	4,774,153
26,089,825	115,088,259	20,857,888	24,537,443	98,268,808	15,011,268
63,606,886	307,246,749	35,098,665	58,257,812	216,518,117	32,307,332
— ¹	— ¹	— ¹	4,443,095	13,163,314	1,785,187
11,003,500	110,417,970	8,916,723	7,269,960	34,829,698	5,926,909
15,231,643	55,118,576	6,995,881	14,660,572	47,692,372	7,039,920
3,546,174	24,834,482	1,758,287	3,070,989	14,840,973	1,767,076
33,825,569	116,875,721	17,427,774	28,813,196	105,991,760	15,788,240
20,403,606	131,408,846	27,041,189	13,214,429	81,547,130	12,300,999
10,633,671	73,707,884	15,414,085	6,043,878	40,367,901	6,429,801
1,439,591	4,435,126	821,013	593,790	4,032,350	450,215
1,866,047	10,949,842	2,444,081	2,563,575	14,878,575	3,007,077
6,464,297	42,315,994	8,362,010	4,013,186	22,268,304	2,413,906
60,821,531	264,724,549	37,655,931	70,678,442	308,620,221	40,554,626
17,768,548	78,571,331	13,559,013	21,656,374	95,170,439	15,862,151
3,537,355	15,476,342	1,995,957	3,150,211	13,880,749	1,882,726
18,420,133	80,571,018	9,672,373	27,346,535	120,973,704	13,185,129
— ¹	— ¹	— ¹	12,412,179	53,565,567	6,767,798
21,095,495	90,105,858	12,428,588	6,113,143	25,029,762	2,856,822
35,049,505	148,112,690	16,845,722	40,342,412	173,383,325	19,603,528
2,674,682	10,782,568	1,813,672	6,749,794	29,236,360	4,933,694
— ¹	— ¹	— ¹	147,513	505,125	119,004
17,188,704	74,805,568	8,063,961	22,037,477	96,722,560	9,231,395
15,186,119	62,524,554	6,968,089	11,407,628	46,919,280	5,319,435
25,772,026	116,611,859	20,810,209	30,336,030	135,236,896	20,951,098
15,093,866	67,788,763	11,745,341	14,906,580	65,934,079	10,928,457
1,231,429	5,765,450	1,608,412	5,309,058	24,251,144	3,953,734
9,446,731	43,057,646	7,456,456	10,120,392	45,051,673	6,068,907

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

		1925		
		Pounds	Square Yards	Value
Woven Goods — <i>continued</i>				
Lawns, nainsooks, cambries and similar muslins		47,566,144	326,087,427	\$43,323,433
Connecticut		4,902,426	35,303,649	5,627,334
Massachusetts		16,449,563	128,933,441	18,801,664
Rhode Island		6,172,927	43,018,788	6,499,226
South Carolina		— ¹	— ¹	— ¹
All other States		20,041,228	118,831,549	12,395,209
Average single yarn-count, 40's and under		— ¹	— ¹	— ¹
Average single yarn count, 41's and over		— ¹	— ¹	— ¹
South Carolina		— ¹	— ¹	— ¹
Connecticut, Massachusetts and Rhode Island		— ¹	— ¹	— ¹
All other States		— ¹	— ¹	— ¹
Voiles		14,605,965	124,478,525	14,438,387
Massachusetts		10,638,969	93,857,220	10,328,381
All other states		3,966,996	30,621,305	4,110,006
Average single yarn-count, 40's and under		— ¹	— ¹	— ¹
Massachusetts		— ¹	— ¹	— ¹
All other States		— ¹	— ¹	— ¹
Average single yarn-count, 41's and over		— ¹	— ¹	— ¹
Massachusetts		— ¹	— ¹	— ¹
All other States		— ¹	— ¹	— ¹
Crepes		— ¹	— ¹	— ¹
Connecticut, Maine, Massachusetts, Rhode Island		— ¹	— ¹	— ¹
All other States		— ¹	— ¹	— ¹
Average single yarn-count, 40's and under		— ¹	— ¹	— ¹
Average single yarn-count, 41's and over		— ¹	— ¹	— ¹
Gingham		71,770,468	356,475,999	57,591,279
North Carolina, South Carolina and Virginia		— ¹	— ¹	— ¹
All other States		— ¹	— ¹	— ¹
Average single yarn count, 40's and under		— ¹	— ¹	— ¹
North Carolina		— ¹	— ¹	— ¹
South Carolina		— ¹	— ¹	— ¹
All other States		— ¹	— ¹	— ¹
Average single yarn-count, 41's and over		— ¹	— ¹	— ¹
Print cloth		195,594,472	1,166,374,053	98,452,763
North Carolina		16,940,923	104,535,543	8,686,219
South Carolina		128,591,193	739,834,612	63,314,859
Massachusetts and Rhode Island		— ¹	— ¹	— ¹
All other States		50,062,356	322,003,898	26,451,685

¹ Not reported.

Goods; and Yarns for Sale, 1925, 1927 and 1929—(Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1927			1929		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
37,000,333	272,453,611	\$32,100,888	31,144,397	226,553,738	\$25,418,595
2,764,314	25,908,656	3,263,727	4,223,964	35,404,381	4,489,592
17,193,215	138,870,604	16,584,875	11,026,660	97,174,210	15,012,166
9,352,652	55,000,428	6,728,934	5,476,800	25,228,826	4,079,552
— ¹	— ¹	— ¹	2,752,681	16,151,682	1,875,522
7,690,152	52,673,923	5,523,352	7,664,292	52,594,639	4,961,763
6,958,957	34,956,696	3,636,160	2,404,126	10,626,982	1,100,298
30,041,376	237,496,915	28,464,728	28,740,271	215,926,756	24,318,297
— ¹	— ¹	— ¹	2,752,681	16,151,682	1,875,522
— ¹	— ¹	— ¹	19,908,472	154,108,686	18,115,748
— ¹	— ¹	— ¹	6,079,118	45,666,388	4,327,027
17,571,239	151,654,198	15,011,868	17,908,973	157,449,397	13,406,699
14,520,344	126,666,413	12,471,720	13,271,319	118,513,952	10,043,027
3,050,895	24,987,785	2,540,148	4,637,654	38,935,445	3,362,672
4,321,016	29,444,777	2,934,370	4,538,344	36,697,293	2,792,319
3,289,658	22,097,566	2,244,594	3,095,454	25,783,626	1,978,903
1,031,358	7,347,211	689,776	1,442,890	10,913,667	813,416
13,250,223	122,209,421	12,077,498	13,370,629	120,752,104	10,614,380
11,230,686	104,568,847	10,227,126	10,175,865	92,730,326	8,064,124
2,019,537	17,640,574	1,850,372	3,194,764	28,021,778	2,550,256
2,481,673	11,738,948	2,209,726	5,611,489	36,660,148	6,045,909
— ¹	— ¹	— ¹	4,792,271	30,050,310	5,369,671
— ¹	— ¹	— ¹	819,218	6,609,838	676,238
1,602,945	6,673,864	1,303,030	1,457,132	7,284,371	831,425
878,728	5,065,084	906,696	4,154,357	29,375,777	5,214,484
60,267,681	290,618,626	37,128,856	30,317,156	147,120,296	17,717,408
— ¹	— ¹	— ¹	20,624,902	98,035,132	12,064,007
— ¹	— ¹	— ¹	9,692,254	49,085,164	5,653,401
58,085,053	279,947,167	34,477,450	29,993,503	145,006,845	17,247,207
17,736,270	91,105,004	10,171,615	13,198,545	53,587,598	7,535,055
— ¹	— ¹	— ¹	3,318,897	23,121,910	1,733,989
40,348,783	188,842,163	24,305,835	13,476,061	68,297,337	7,978,163
2,182,628	10,671,459	2,651,406	323,653	2,113,451	470,201
270,577,116	1,583,861,282	109,826,442	301,479,145	1,703,025,248	121,423,305
25,700,647	150,892,113	10,046,067	29,859,217	157,909,702	11,839,007
174,699,301	1,003,767,862	69,431,647	206,187,485	1,170,152,608	82,501,225
— ¹	— ¹	— ¹	23,247,892	131,426,776	10,069,374
70,177,168	429,201,307	30,348,728	42,184,551	243,536,162	17,013,699

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

		1925		
		Pounds	Square Yards	Value
Woven Goods — <i>continued</i>				
Width narrower than 36 inches		—1	—1	—1
Massachusetts		—1	—1	—1
South Carolina		—1	—1	—1
All other States		—1	—1	—1
Width 36 inches and wider		—1	—1	—1
North Carolina		—1	—1	—1
South Carolina		—1	—1	—1
Massachusetts and New Hampshire		—1	—1	—1
All other States		—1	—1	—1
Pajama checks, dimities, and similar fabrics		—1	—1	—1
Massachusetts		—1	—1	—1
South Carolina		—1	—1	—1
All other States		—1	—1	—1
Average single yarn count, 40's and under		—1	—1	—1
Average single yarn count, 41's and over		—1	—1	—1
Sheetings		369,375,945	1,638,168,738	\$180,357,058
Alabama		26,264,596	107,996,776	11,132,106
Georgia		69,733,229	316,956,652	31,919,694
Maine		19,659,339	74,480,407	11,332,767
Massachusetts		24,861,493	95,439,280	15,244,046
North Carolina		47,538,594	225,007,412	23,021,544
South Carolina		106,478,909	501,219,102	46,438,505
Tennessee and Virginia		24,599,162	113,467,864	11,662,444
All other States		50,240,623	203,601,245	29,605,952
Sheetings 40 inches and narrower		—1	—1	—1
Alabama		—1	—1	—1
Georgia		—1	—1	—1
Maine		—1	—1	—1
Massachusetts		—1	—1	—1
North Carolina		—1	—1	—1
Rhode Island		—1	—1	—1
South Carolina		—1	—1	—1
Tennessee		—1	—1	—1
Mississippi and Virginia		—1	—1	—1
All other States		—1	—1	—1
Sheetings wider than 40 inches		—1	—1	—1
Alabama		—1	—1	—1
Georgia		—1	—1	—1
Maine		—1	—1	—1
Massachusetts		—1	—1	—1
New Hampshire		—1	—1	—1
North Carolina		—1	—1	—1
South Carolina		—1	—1	—1
Mississippi, Oklahoma and Virginia		—1	—1	—1
All other States		—1	—1	—1
Pillow tubing		7,059,588	21,264,466	5,473,381

¹ Not reported.

Goods; and Yarns for Sale, 1925, 1927 and 1929—(Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1927			1929		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
40,750,300	260,986,160	\$17,255,465	50,110,347	306,071,308	\$19,277,600
5,075,968	37,851,609	2,255,678	1,378,096	12,183,104	659,594
23,732,987	142,930,383	9,392,875	34,857,342	202,542,897	13,102,468
11,941,345	80,204,168	5,606,912	13,874,909	91,345,307	5,515,538
229,826,816	1,322,875,122	92,570,977	251,368,798	1,396,953,940	102,145,705
24,344,301	143,064,591	9,495,560	29,859,217	157,909,702	11,839,007
150,966,314	860,837,479	60,038,772	171,330,143	967,609,711	69,398,757
—1	—1	—1	26,304,207	138,466,449	11,282,591
54,516,201	318,973,052	23,036,645	23,875,231	132,968,078	9,625,350
22,685,386	114,813,095	10,198,312	20,904,845	122,108,968	13,085,354
2,499,468	18,449,519	1,901,410	6,172,349	49,737,784	6,184,780
13,968,568	65,570,328	5,500,995	9,169,298	43,951,905	3,978,590
6,217,350	30,793,248	2,795,907	5,563,198	28,419,279	2,921,984
19,444,367	97,432,446	7,939,420	14,833,563	88,378,478	9,608,333
3,241,019	17,380,649	2,258,892	6,071,282	33,730,490	3,477,021
435,706,842	1,857,476,174	167,888,002	396,021,293	1,693,167,162	146,181,212
37,319,790	143,464,866	11,573,046	41,312,284	152,446,296	13,332,067
73,787,017	320,253,192	25,091,138	79,716,402	360,298,693	28,726,852
20,972,217	65,871,382	10,411,851	14,957,191	49,633,772	5,941,256
28,190,607	97,464,616	15,187,886	17,300,773	69,980,969	10,219,575
45,648,594	216,346,595	17,919,350	38,105,488	176,542,222	14,638,260
139,066,798	631,122,629	47,965,757	127,215,232	543,972,093	44,033,586
38,522,714	173,836,818	14,297,936	36,079,054	162,363,925	12,212,482
52,229,105	209,116,076	25,441,038	41,334,869	177,929,192	17,077,134
278,381,417	1,209,422,165	93,948,546	271,347,297	1,175,307,528	92,264,309
32,159,780	118,783,962	9,595,343	32,030,249	114,620,707	9,937,505
50,621,033	211,092,611	16,801,213	55,942,271	252,354,778	19,164,330
4,106,330	14,265,511	2,236,719	1,723,797	6,143,308	743,915
1,742,102	8,917,973	894,761	1,294,125	5,639,003	834,794
19,970,276	93,668,297	6,890,698	14,926,379	62,312,527	5,180,994
—1	—1	—1	4,545,910	18,582,968	1,837,146
122,308,327	541,204,393	40,252,822	110,830,227	486,984,094	37,284,055
—1	—1	—1	18,592,524	80,210,958	6,021,214
—1	—1	—1	14,367,582	74,137,580	4,653,278
47,473,569	221,489,418	17,267,990	17,094,233	74,591,605	6,607,078
157,325,425	648,054,009	73,939,456	124,673,996	517,859,634	53,916,903
5,160,010	24,680,904	1,977,703	9,828,035	37,825,589	3,394,562
23,165,984	109,160,581	8,280,925	23,774,131	107,943,915	9,562,522
16,865,887	51,605,871	8,175,132	13,233,394	43,490,464	5,197,341
26,448,505	88,546,643	14,293,125	16,006,648	64,611,966	9,384,781
—1	—1	—1	3,975,137	12,968,945	1,878,767
25,678,318	122,678,298	11,028,652	23,179,109	114,229,695	9,457,266
16,728,471	89,918,236	7,712,935	16,385,005	56,987,999	6,749,531
—1	—1	—1	8,901,743	41,568,805	3,840,459
43,278,250	161,463,476	22,470,984	9,936,794	38,232,256	4,451,674
8,574,007	26,652,380	4,416,380	7,059,588	21,264,466	3,989,009

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

	1925		
	Pounds	Square Yards	Value
Woven Goods — <i>continued</i>			
Pile fabrics—plushes, velvets and velveteens	30,609,434	33,478,404	\$40,678,952
Pennsylvania	21,964,480	21,575,608	29,304,349
Massachusetts and Rhode Island	— ¹	— ¹	— ¹
North Carolina and South Carolina	— ¹	— ¹	— ¹
All other States	8,644,954	11,902,796	11,374,603
Plushes	— ¹	— ¹	— ¹
All cotton	— ¹	— ¹	— ¹
Pennsylvania	— ¹	— ¹	— ¹
New Jersey and Rhode Island	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Other	— ¹	— ¹	— ¹
Pennsylvania	— ¹	— ¹	— ¹
South Carolina	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Velvets	— ¹	— ¹	— ¹
Velveteens	— ¹	— ¹	— ¹
Corduroys	13,524,234	21,593,116	9,553,345
Draperies (except velvets and plushes)	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
Pennsylvania	— ¹	— ¹	— ¹
Connecticut and Rhode Island	— ¹	— ¹	— ¹
Georgia and South Carolina	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
All cotton	— ¹	— ¹	— ¹
Average single yarn-count, 40's and under	— ¹	— ¹	— ¹
Connecticut	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Average single yarn-count, 41's and over	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
In chief value of cotton containing rayon	— ¹	— ¹	— ¹
Average single yarn-count, 40's and under	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Average single yarn-count, 41's and over	— ¹	— ¹	— ¹
Pennsylvania	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Entirely or in chief value of rayon	— ¹	— ¹	— ¹
Twills and sateens	151,500,381	532,830,805	81,133,051
Georgia	26,016,676	71,043,019	4,283,841
Massachusetts	28,124,919	133,519,175	11,926,516
North Carolina	7,069,133	28,180,463	3,347,921
Rhode Island	9,074,279	41,702,529	4,284,264
South Carolina	19,423,269	69,560,978	8,904,500
All other States	61,792,105	188,815,641	32,968,369

¹ Not reported.

Goods; and Yarns for Sale, 1925, 1927 and 1929—(Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1927			1929		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
35,641,022	42,689,229	—1	41,777,351	59,393,597	\$11,760,522
18,160,964	20,391,464	—1	15,200,146	16,824,130	16,191,252
—1	—1	—1	8,788,308	12,478,499	8,687,671
—1	—1	—1	6,674,306	8,987,958	7,782,845
17,480,058	8,644,954	—1	11,114,591	21,103,010	9,098,754
—1	—1	—1	34,054,259	40,473,750	35,981,435
—1	—1	—1	27,927,018	33,190,317	27,762,701
—1	—1	—1	11,394,956	12,792,583	11,175,947
—1	—1	—1	9,304,459	10,754,987	8,898,488
—1	—1	—1	7,227,603	9,642,747	7,688,266
—1	—1	—1	6,127,241	7,283,433	8,218,734
—1	—1	—1	3,805,190	4,031,547	5,015,305
—1	—1	—1	1,836,155	2,160,305	2,008,825
—1	—1	—1	485,896	1,091,581	1,194,604
—1	—1	—1	4,300,907	10,694,489	2,006,551
—1	—1	—1	3,422,185	8,225,358	3,772,536
14,243,149	23,171,265	—1	15,501,482	27,134,419	9,500,553
—1	—1	—1	41,184,860	226,671,163	39,043,368
—1	—1	—1	13,487,962	93,964,974	12,486,447
—1	—1	—1	5,894,607	18,839,089	4,592,126
—1	—1	—1	1,077,101	2,257,624	3,784,817
—1	—1	—1	6,848,267	53,976,327	9,546,485
—1	—1	—1	11,523,070	48,418,294	6,259,302
—1	—1	—1	2,353,853	9,214,855	2,374,191
—1	—1	—1	26,955,484	171,117,581	22,199,496
—1	—1	—1	20,984,037	119,994,791	16,107,889
—1	—1	—1	2,135,858	18,629,987	2,277,064
—1	—1	—1	7,136,413	50,927,721	5,802,958
—1	—1	—1	11,711,766	50,437,083	8,027,867
—1	—1	—1	5,971,447	51,122,790	6,091,607
—1	—1	—1	3,108,991	27,474,803	2,920,693
—1	—1	—1	2,862,456	23,647,987	3,170,914
—1	—1	—1	8,430,218	31,261,580	10,855,382
—1	—1	—1	7,334,137	27,393,065	8,534,717
—1	—1	—1	2,402,527	10,261,909	2,293,644
—1	—1	—1	4,931,610	17,131,156	6,244,073
—1	—1	—1	1,096,081	3,868,515	2,320,665
—1	—1	—1	373,561	792,222	1,149,551
—1	—1	—1	722,520	3,076,293	1,171,114
—1	—1	—1	5,799,158	24,292,002	5,988,490
111,972,833	413,996,563	\$50,336,045	82,492,337	284,117,406	37,441,206
13,443,239	34,860,497	4,283,841	16,753,245	36,168,331	6,130,207
21,694,381	107,065,026	11,926,516	15,368,484	73,149,815	8,778,656
6,619,418	32,586,207	3,347,921	4,746,637	16,720,974	2,270,695
7,127,714	31,305,058	4,284,264	4,389,835	19,988,802	2,536,691
24,171,378	77,540,914	8,904,500	12,905,638	51,607,885	5,447,679
38,916,703	130,638,863	17,589,003	28,328,498	86,481,599	12,277,278

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

		Pounds	Square Yards	Value
Woven Goods — <i>continued</i>				
Average single yarn-count, 40's and under		—1	—1	—1
Maine		—1	—1	—1
Massachusetts		—1	—1	—1
North Carolina		—1	—1	—1
Rhode Island		—1	—1	—1
Alabama and Georgia		—1	—1	—1
All other States		—1	—1	—1
Average single yarn-count, 41's and over		—1	—1	—1
Massachusetts		—1	—1	—1
North Carolina		—1	—1	—1
Rhode Island		—1	—1	—1
Connecticut, Maine and New Hampshire		—1	—1	—1
All other States		—1	—1	—1
Drills		103,457,753	286,114,586	\$42,388,768
Georgia		34,816,476	92,985,954	14,615,296
South Carolina		26,918,735	77,357,241	10,476,619
Texas		—1	—1	—1
Alabama and North Carolina		28,173,458	78,832,632	11,494,830
All other States		13,549,084	36,938,759	5,820,023
Drills, 40 inches		—1	—1	—1
Alabama		—1	—1	—1
Georgia		—1	—1	—1
North Carolina		—1	—1	—1
South Carolina		—1	—1	—1
Texas		—1	—1	—1
Arkansas, Mississippi, Tennessee and Virginia		—1	—1	—1
All other States		—1	—1	—1
Drills wider than 40 inches		—1	—1	—1
Georgia		—1	—1	—1
South Carolina		—1	—1	—1
All other States		—1	—1	—1
Napped fabrics		101,058,550	340,415,819	53,606,741
Alabama		—1	—1	—1
Georgia		13,763,195	23,609,077	5,780,234
Massachusetts		18,644,419	66,280,654	11,794,802
New Hampshire		20,826,225	69,067,378	11,450,402
North Carolina		34,391,192	134,847,018	18,119,707
South Carolina		—1	—1	—1
All other States		13,433,519	46,611,692	6,461,596
Blanketing (sold as piece goods)		—1	—1	—1
Canton flannel		—1	—1	—1
Georgia		—1	—1	—1
All other States		—1	—1	—1
Cotton flannel, flannelettes, domets, outing, and similar fabrics		—1	—1	—1
Georgia		—1	—1	—1
North Carolina		—1	—1	—1
All other States		—1	—1	—1

* Not reported.

Goods; and Yarns for Sale, 1925, 1927 and 1929—(Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1927			1929		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
99,726,601	350,938,322	\$40,859,904	69,467,005	225,685,907	\$28,384,057
—1	—1	—1	1,566,210	3,418,426	683,919
17,906,174	86,062,930	8,523,953	10,732,715	49,557,959	5,421,149
—1	—1	—1	4,166,006	13,392,580	1,817,316
4,988,808	20,810,462	2,521,652	2,954,589	12,564,067	1,404,012
—1	—1	—1	26,116,308	54,468,501	9,167,967
76,831,619	244,064,930	29,814,209	23,931,177	92,284,374	9,889,694
12,246,232	63,058,243	9,476,141	13,025,332	58,431,499	9,057,119
3,788,207	21,002,096	3,402,563	4,635,769	23,591,856	3,357,507
—1	—1	—1	580,631	3,328,394	453,379
2,138,906	10,494,596	1,762,612	1,435,246	7,424,735	1,132,679
—1	—1	—1	2,933,236	14,427,143	2,194,067
6,319,119	31,561,551	4,310,966	3,440,450	9,659,371	1,919,517
128,687,635	347,775,666	40,668,249	118,843,173	324,041,245	39,700,916
41,671,811	113,824,768	12,830,301	37,131,287	98,764,137	12,873,499
24,940,183	76,180,715	7,858,621	28,402,262	75,663,960	8,927,036
—1	—1	—1	694,926	1,587,986	256,996
49,969,186	123,161,266	15,568,448	43,395,283	120,737,024	14,218,317
12,106,455	34,608,917	4,410,879	9,219,415	27,288,138	3,425,068
97,548,425	260,469,896	30,750,484	89,359,572	237,495,139	29,205,525
—1	—1	—1	26,964,059	70,738,634	8,723,945
24,614,196	65,023,578	7,649,734	20,958,698	54,739,823	6,963,160
—1	—1	—1	8,319,408	24,726,688	2,723,568
—1	—1	—1	24,511,597	63,876,455	7,677,438
—1	—1	—1	694,926	1,587,986	256,996
—1	—1	—1	4,065,156	10,788,472	1,440,909
72,934,229	195,446,318	23,100,750	3,845,728	11,037,081	1,419,509
31,139,210	87,305,770	9,917,765	29,483,601	86,546,106	10,495,391
17,057,615	48,801,190	5,180,567	16,172,589	44,024,314	5,910,339
—1	—1	—1	3,890,665	11,787,505	1,249,598
14,081,593	38,504,580	4,737,198	9,420,347	30,734,287	3,335,454
125,944,806	400,097,211	55,386,356	108,879,302	323,140,452	48,329,469
8,779,773	25,531,812	2,703,392	10,578,697	23,174,685	4,082,941
19,927,329	34,723,837	7,347,923	19,687,339	36,162,781	7,138,566
14,014,934	36,216,416	8,167,550	6,963,554	11,680,572	4,322,519
19,800,678	66,829,356	9,903,907	17,423,720	60,226,939	8,469,768
43,503,378	169,621,911	18,129,437	41,042,226	150,369,288	18,247,444
10,113,446	36,389,613	3,999,770	7,801,222	30,360,734	3,623,930
9,805,268	30,784,266	5,134,377	5,380,544	11,165,453	2,144,301
5,576,787	10,142,817	4,312,418	5,233,075	7,880,957	3,854,354
18,198,334	34,971,189	6,194,680	24,738,318	45,427,598	8,744,388
7,895,310	13,439,389	2,783,855	12,968,761	21,684,319	4,124,821
10,303,024	21,531,800	3,410,825	11,769,557	23,743,279	4,619,567
86,730,138	328,061,554	38,257,305	64,102,929	243,010,201	29,408,816
—1	—1	—1	4,777,839	11,159,008	2,018,662
37,020,488	156,504,571	16,112,002	31,506,156	133,799,052	14,464,823
49,709,650	171,556,983	22,145,303	27,818,934	98,052,141	12,925,331

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

		Pounds	Square Yards	Value
Woven Goods — <i>continued</i>				
Napped Fabrics — <i>continued</i>				
Moleskin		— ¹	— ¹	— ¹
Other		— ¹	— ¹	— ¹
Tobacco, cheese, butter, bunting and bandage cloths		30,571,048	451,633,354	\$16,269,354
Massachusetts		16,713,976	242,175,661	9,400,871
North Carolina		— ¹	— ¹	— ¹
South Carolina		6,934,347	105,151,924	5,775,575
All other states		6,922,725	104,305,769	4,121,741
Denims		103,958,090	180,491,656	46,092,096
Georgia		19,086,332	32,779,149	7,836,613
New Hampshire		7,072,343	11,920,016	2,961,190
North Carolina		39,101,506	67,552,257	17,689,779
Alabama, Louisiana, Mississippi		— ¹	— ¹	— ¹
All other states		38,697,909	68,240,234	17,604,514
Standard denim, white back and double twist		— ¹	— ¹	— ¹
New Hampshire		— ¹	— ¹	— ¹
North Carolina		— ¹	— ¹	— ¹
Alabama, Georgia and Louisiana		— ¹	— ¹	— ¹
All other states		— ¹	— ¹	— ¹
Pin checks, express stripes and all other		— ¹	— ¹	— ¹
North Carolina		— ¹	— ¹	— ¹
Georgia and South Carolina		— ¹	— ¹	— ¹
All other states		— ¹	— ¹	— ¹
Tickings		20,842,173	48,362,153	10,304,978
Georgia		4,777,169	8,806,213	2,014,689
North Carolina		5,025,637	14,872,377	2,646,734
Pennsylvania		2,140,810	3,866,476	1,313,409
All other states		8,898,557	20,817,087	4,330,146
Osnaburgs		53,891,002	118,068,963	18,448,738
Alabama		10,719,511	22,908,569	3,604,809
Georgia		18,368,009	39,046,869	6,737,694
North Carolina		— ¹	— ¹	— ¹
South Carolina		14,031,995	32,778,742	4,257,095
Texas		2,808,813	5,828,135	1,058,453
All other states		7,962,674	17,506,648	2,790,687
Cotton bags made from fabrics woven by same establishment		7,492,094	12,693,953	3,383,670
Tire fabrics		189,345,195	65,161,993	105,625,894
Cord fabric for tires		140,492,454	— ¹	80,478,625
Georgia		— ¹	— ¹	— ¹
Massachusetts		35,734,110	— ¹	19,601,675
North Carolina		17,095,658	— ¹	9,967,845
Alabama and South Carolina		— ¹	— ¹	— ¹
All other states		87,662,686	— ¹	50,909,105

¹ Not reported.

Goods; and Yarns for Sale, 1925, 1927 and 1929—(Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1927			1929		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
— ¹	— ¹	— ¹	6,445,877	10,566,102	\$2,874,960
15,439,547	26,921,651	6,621,953	8,359,103	16,255,594	3,446,951
44,120,676	660,424,843	19,298,187	41,772,410	617,410,845	18,099,850
20,042,171	272,589,500	9,400,871	11,029,314	177,884,474	4,876,876
— ¹	— ¹	— ¹	7,015,715	114,250,611	2,861,267
14,111,258	222,849,857	5,775,575	15,319,151	202,257,199	6,639,843
9,967,247	164,984,986	4,121,741	8,408,230	123,018,561	3,721,864
144,605,484	254,117,955	49,791,845	141,853,387	249,891,122	49,256,461
22,746,932	39,919,413	8,044,530	23,404,492	41,328,473	8,577,766
9,624,460	16,054,442	3,222,161	8,346,282	14,341,769	18,613,736
53,973,219	93,698,105	17,417,195	56,902,255	98,040,320	3,056,940
— ¹	— ¹	— ¹	30,598,318	56,560,430	10,893,713
58,260,873	104,445,995	21,107,059	22,602,040	39,620,130	8,114,306
132,044,846	226,295,040	43,942,560	122,519,165	209,605,700	41,727,408
9,624,460	16,054,442	3,222,161	8,346,282	14,341,769	3,056,940
53,442,320	92,324,025	17,203,415	55,726,890	95,567,179	18,199,361
— ¹	— ¹	— ¹	38,076,958	66,159,641	13,462,383
68,978,066	117,916,573	23,516,984	20,369,035	33,537,111	7,008,724
12,560,638	27,822,915	5,849,285	19,334,222	40,285,422	7,529,053
530,899	1,374,080	214,780	1,175,365	2,473,141	414,375
— ¹	— ¹	— ¹	9,848,084	19,949,795	3,763,769
12,029,739	26,448,835	5,635,505	8,310,773	17,862,486	3,350,909
24,567,950	59,283,350	10,358,553	19,931,428	42,410,547	9,280,484
7,467,860	19,131,596	2,936,008	5,211,919	11,749,882	2,236,967
6,072,799	16,487,595	2,374,767	7,543,794	18,349,657	3,581,260
2,276,225	4,107,199	1,206,781	1,732,855	3,117,914	909,772
8,751,066	19,556,960	3,840,997	5,442,860	9,193,094	2,552,485
72,247,512	164,975,794	17,899,540	59,144,030	139,526,817	17,301,669
17,435,433	38,874,341	3,804,314	17,042,339	40,539,421	4,992,092
22,509,380	54,158,758	6,100,165	21,653,796	49,425,125	6,500,462
— ¹	— ¹	— ¹	3,103,073	11,279,352	872,591
21,044,550	45,143,614	4,932,166	7,613,267	19,155,687	2,080,837
4,647,612	10,760,956	1,341,874	5,553,610	11,110,408	1,593,212
6,610,537	16,038,125	1,721,021	4,177,945	8,016,824	1,262,475
12,366,948	17,557,936	3,271,207	7,659,518	10,485,645	2,031,568
197,353,058	46,190,864	80,974,199	253,617,264 ²	45,636,348	112,853,660
160,612,114	— ¹	66,974,970	220,360,699	— ¹	99,377,409
49,927,324	— ¹	19,371,101	73,527,407	— ¹	33,275,383
39,236,673	— ¹	16,804,298	60,368,212	— ¹	26,666,864
26,676,525	— ¹	11,286,570	26,842,062	— ¹	12,301,432
— ¹	— ¹	— ¹	29,626,477	— ¹	12,780,124
44,771,592	— ¹	19,513,001	29,996,541	— ¹	14,353,606

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

		Pounds	Square Yards	Value
Woven Goods — <i>continued</i>				
Tire fabrics — <i>continued</i>				
Tire duck	.	32,081,733	40,761,508	\$16,628,610
Alabama	.	— ¹	— ¹	— ¹
Georgia	.	12,822,770	15,776,838	3,281,382
North Carolina	.	8,356,220	11,906,996	3,641,203
All other states	.	10,902,743	13,077,674	6,297,985
Tire fabrics other than cord or duck	.	16,771,008	24,400,485	2,656,032
Georgia	.	— ¹	— ¹	1,085,011
All other states	.	— ¹	— ¹	1,571,021
Duck, ounce (except tire)	.	97,371,485	161,883,782	40,295,987
Alabama	.	21,124,845	41,017,234	8,699,418
Georgia	.	34,318,256	49,955,488	14,162,933
Massachusetts	.	6,590,752	11,687,072	3,095,696
South Carolina	.	— ¹	— ¹	— ¹
Texas	.	22,562,146	38,203,296	8,549,143
All other states	.	12,775,486	21,020,692	5,788,797
Duck, army	.	— ¹	— ¹	— ¹
Georgia	.	— ¹	— ¹	— ¹
Alabama North Carolina, South Carolina	.	— ¹	— ¹	— ¹
All other states	.	— ¹	— ¹	— ¹
Duck, hose and belt	.	— ¹	— ¹	— ¹
Georgia	.	— ¹	— ¹	— ¹
All other states	.	— ¹	— ¹	— ¹
Duck, filter cloth	.	— ¹	— ¹	— ¹
Duck, flat laid	.	— ¹	— ¹	— ¹
Alabama	.	— ¹	— ¹	— ¹
Georgia	.	— ¹	— ¹	— ¹
Texas	.	— ¹	— ¹	— ¹
All other states	.	— ¹	— ¹	— ¹
Duck, all other	.	— ¹	— ¹	— ¹
Georgia and Texas	.	— ¹	— ¹	— ¹
All other states	.	— ¹	— ¹	— ¹
Duck, numbered	.	33,843,802	31,449,971	13,531,070
Alabama	.	— ¹	— ¹	— ¹
Maryland	.	10,104,246	11,050,571	4,568,323
Georgia and South Carolina	.	— ¹	— ¹	— ¹
All other states	.	23,739,556	20,399,400	8,962,747
Duck, sail	.	— ¹	— ¹	— ¹
Duck, wide	.	— ¹	— ¹	— ¹
Alabama	.	— ¹	— ¹	— ¹
Georgia	.	— ¹	— ¹	— ¹
Maryland	.	— ¹	— ¹	— ¹
All other states	.	— ¹	— ¹	— ¹

¹ Not reported.

Goods; and Yarns for Sale, 1925, 1927 and 1929—(Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1927			1929		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
30,164,943	35,474,346	\$11,343,197	20,488,512	26,075,544	\$7,978,456
—1	—1	—1	3,432,035	4,535,322	1,245,484
9,557,361	10,063,215	3,281,382	3,999,002	4,994,766	1,552,224
8,912,827	10,513,237	3,641,203	9,266,133	11,800,938	3,753,051
11,694,755	14,897,894	4,420,612	3,791,342	4,744,518	1,427,697
6,576,001	10,716,518	2,656,032	12,768,053	19,560,804	5,497,795
2,830,935	4,286,490	1,085,011	5,218,046	8,286,101	2,250,519
3,745,066	6,430,028	1,571,021	7,550,007	11,274,703	3,247,276
132,816,520	178,807,302	43,555,624	137,653,484	188,058,220	48,705,834
32,039,715	46,905,716	10,254,448	41,274,449	57,752,701	14,613,997
43,752,864	50,943,980	13,763,577	47,534,028	61,318,767	16,037,132
6,914,483	10,917,866	3,616,368	3,764,699	5,364,122	2,368,582
—1	—1	—1	9,818,857	9,455,954	3,554,140
27,249,679	43,421,794	7,178,812	23,595,609	35,388,666	7,995,584
22,859,779	26,617,946	8,742,419	11,665,842	18,778,010	4,136,399
22,740,129	32,678,853	9,206,034	23,313,462	37,692,210	9,896,347
5,295,954	6,271,393	1,954,376	4,665,152	7,894,037	1,844,741
—1	—1	—1	14,973,340	24,456,175	5,605,262
17,444,175	26,407,460	7,260,658	3,674,970	5,341,998	2,446,344
33,019,342	19,804,985	10,791,106	36,905,616	24,089,631	12,764,571
17,584,264	9,012,531	5,798,587	21,317,902	13,951,723	7,296,194
15,435,078	10,792,454	4,992,519	15,587,714	10,137,908	5,468,377
2,504,181	2,743,314	1,229,075	3,390,773	3,344,844	1,567,014
62,936,377	105,248,546	18,554,277	65,732,881	108,616,483	21,878,131
16,051,761	26,057,488	5,069,221	23,114,881	36,051,153	7,889,976
18,411,249	31,787,478	5,162,704	16,935,170	32,449,304	5,321,433
20,428,895	33,318,943	5,415,357	18,696,324	26,991,981	6,632,311
8,080,472	14,084,637	2,906,995	6,986,506	13,124,045	2,034,411
11,616,491	18,331,604	3,775,132	8,310,752	14,315,052	2,599,771
7,828,542	12,409,323	2,149,856	7,570,056	13,653,731	2,233,453
3,787,949	5,922,281	1,625,276	740,696	661,321	366,318
42,483,191	39,697,572	14,373,755	43,667,312	42,085,750	16,386,816
13,302,293	12,309,393	4,051,836	13,181,727	12,587,801	4,601,701
10,315,144	9,653,786	3,576,433	10,967,261	8,725,602	4,068,388
—1	—1	—1	15,056,296	16,633,536	5,550,685
18,865,754	17,734,393	6,745,486	4,462,028	4,138,811	2,166,042
3,786,418	3,590,557	1,372,645	3,621,515	2,566,694	1,309,013
28,202,782	25,759,855	9,173,140	24,456,697	22,212,706	8,917,604
—1	—1	—1	8,314,152	8,438,387	2,991,884
11,202,196	9,933,196	3,658,563	7,402,097	6,210,972	2,694,867
6,274,340	6,547,291	2,167,815	5,700,562	4,489,892	2,114,672
10,726,246	9,279,368	3,346,762	3,039,886	3,073,455	1,116,181

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

			1925	
		Pounds	Square Yards	Value
Woven Goods — <i>continued</i>				
Duck, wide — <i>continued</i>				
Naught duck including hydraulic and biscuit		—1	—1	—1
Alabama, Georgia, Maryland, and South Carolina		—1	—1	—1
All other numbered duck		—1	—1	—1
Alabama, Georgia and South Carolina		—1	—1	—1
Connecticut, Massachusetts, Maryland		—1	—1	—1
Mosquito netting and tarlataan		1,384,139	21,094,700	\$1,358,884
Towels, toweling, and wash cloths		61,063,456	126,565,750	38,149,566
Georgia		—1	—1	—1
New Jersey		—1	—1	—1
Pennsylvania		5,969,469	9,918,070	6,004,452
North Carolina, South Carolina and Virginia		—1	—1	—1
All other states		55,093,987	116,647,680	32,145,114
Towels and toweling		—1	—1	—1
Plain woven		—1	—1	—1
Turkish and terry woven		—1	—1	—1
New Jersey		—1	—1	—1
North Carolina		—1	—1	—1
Pennsylvania		—1	—1	—1
All other states		—1	—1	—1
Duck, woven		—1	—1	—1
Alabama, Georgia, North Carolina		—1	—1	—1
All other states		—1	—1	—1
Damask or jacquard and other		—1	—1	—1
Wash cloths		—1	—1	—1
New Jersey		—1	—1	—1
Pennsylvania		—1	—1	—1
All other states		—1	—1	—1
Bath mats		—1	—1	—1
Pennsylvania		—1	—1	—1
All other states		—1	—1	—1
Terry woven fabrics except towels, toweling, washcloths and bath mats		—1	—1	—1
Blankets		43,278,256	92,077,330	29,547,532
Blankets except crib		—1	—1	—1
Pair length		—1	—1	—1
60 inches or less		—1	—1	—1
Over 60 inches		—1	—1	—1
Single length		—1	—1	—1
60 inches or less		—1	—1	—1
Over 60 inches		—1	—1	—1
Crib blankets		—1	—1	—1
Blankets partly of wool		—1	—1	—1

† Not reported.

Goods; and Yarns for Sale, 1925, 1927 and 1929—(Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1927			1929		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
3,291,013	2,113,422	\$1,178,099	2,374,629	1,127,512	\$900,459
3,291,013	2,113,422	1,178,099	2,374,629	1,127,512	900,459
7,202,978	8,233,738	2,649,871	13,214,471	16,178,838	5,259,740
— ¹	— ¹	— ¹	7,124,120	10,738,991	2,401,796
— ¹	— ¹	— ¹	6,090,351	5,439,847	2,857,944
856,036	14,727,287	850,312	3,513,655	33,298,163	2,356,362
83,848,302	169,997,031	42,611,371	70,973,774	169,694,153	33,037,277
— ¹	— ¹	— ¹	12,557,638	25,698,369	6,030,521
2,850,412	6,931,817	1,355,997	2,274,135	5,861,656	1,132,270
6,676,922	9,457,058	5,904,326	2,921,264	5,140,934	2,546,545
— ¹	— ¹	— ¹	43,297,482	109,532,170	18,464,592
74,320,968	153,608,156	35,351,048	9,923,255	23,461,024	4,863,349
80,721,578	164,536,662	40,154,275	66,233,280	157,621,025	30,168,738
7,231,026	17,860,746	2,782,932	6,774,955	18,508,591	3,114,022
48,780,529	89,248,006	23,429,135	38,158,202	82,414,616	17,867,786
— ¹	— ¹	— ¹	24,338	39,034	30,632
— ¹	— ¹	— ¹	23,441,671	54,441,993	9,966,240
3,375,267	4,960,485	3,283,361	1,711,420	2,581,001	1,521,839
45,405,262	84,287,521	20,145,774	12,980,773	25,352,588	6,349,075
13,212,336	34,644,035	6,312,867	13,487,978	37,417,114	5,363,233
— ¹	— ¹	— ¹	8,553,625	23,722,114	3,270,447
— ¹	— ¹	— ¹	4,934,353	13,695,000	2,092,786
11,497,687	22,783,875	7,629,341	7,812,145	19,280,704	3,823,697
3,126,724	5,460,369	2,457,096	4,740,494	12,073,128	2,868,539
— ¹	— ¹	— ¹	337,839	584,223	312,848
1,869,140	3,237,156	1,511,699	731,776	1,569,342	652,943
1,257,584	2,223,213	945,397	3,670,879	9,919,563	1,902,748
— ¹	— ¹	— ¹	2,085,588	1,180,655	1,532,026
— ¹	— ¹	— ¹	1,211,864	697,498	1,136,830
— ¹	— ¹	— ¹	873,724	483,157	395,196
— ¹	— ¹	— ¹	678,580	1,505,928	461,644
50,494,182	107,262,562	29,452,248	43,650,171	94,060,907	25,391,902
46,803,151	100,587,845	26,523,942	24,427,595	59,158,402	13,185,164
31,590,127	76,106,520	17,371,991	15,729,058	44,733,360	7,725,538
2,064,257	4,661,621	973,015	1,679,701	4,712,548	737,274
29,525,870	71,444,899	16,398,976	14,049,357	40,020,812	6,988,264
15,213,024	24,481,325	9,151,951	8,698,537	14,425,042	5,159,626
788,821	1,775,696	400,577	— ¹	— ¹	— ¹
14,424,203	22,705,629	8,751,374	— ¹	— ¹	— ¹
3,691,031	6,674,717	2,928,306	4,161,792	6,907,812	3,214,905
— ¹	— ¹	— ¹	15,060,784	27,994,693	8,991,833

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

	1925		
	Pounds	Square Yards	Value
Woven Goods — concluded			
Cotton table damask	14,604,134	53,468,297	\$12,450,390
Bedspreads and quilts	21,367,170	52,636,525	16,703,225
Massachusetts	— ¹	— ¹	— ¹
North Carolina	5,938,938	13,773,647	4,356,859
South Carolina	2,064,163	8,782,641	1,424,163
Maine, New Hampshire, and Rhode Island	— ¹	— ¹	— ¹
All other states	13,364,069	30,080,237	10,922,203
Double woven fabrics—marseilles, satin, etc.	— ¹	— ¹	— ¹
All cotton	— ¹	— ¹	— ¹
All rayon and partly rayon	— ¹	— ¹	— ¹
Single woven fabrics—crochet, dimity, rip- lettes, etc.	— ¹	— ¹	— ¹
All cotton	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
All other states	— ¹	— ¹	— ¹
All rayon and partly rayon	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
All other states	— ¹	— ¹	— ¹
Cottonades and cotton worsteds	12,825,891	29,131,065	7,903,377
Cotton Tapestries	8,971,888	15,737,233	17,390,463
North Carolina	— ¹	— ¹	— ¹
Pennsylvania	6,982,092	10,351,238	14,667,223
All other states	1,989,796	5,385,995	4,968,878
Rugs (except bath mats)	— ¹	— ¹	— ¹
Pennsylvania	— ¹	— ¹	— ¹
All other states	— ¹	— ¹	— ¹
Woven	— ¹	— ¹	— ¹
Braided	— ¹	— ¹	— ¹

¹Not reported.

Goods; and Yarns for Sale, 1925, 1927 and 1929—(Concluded)

Bureau of the Census

without disclosing the operations of individual establishments

1927			1929		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
11,005,582	33,523,412	\$6,751,405	12,378,545	35,868,245	\$8,382,821
24,026,764	71,282,515	18,949,735	17,758,093	52,901,717	16,395,884
3,032,764	8,058,168	3,043,357	2,725,042	6,531,628	2,597,108
10,654,000	32,752,173	7,232,485	7,272,614	23,106,994	6,824,872
2,682,344	9,411,136	3,226,404	2,584,743	7,598,240	2,279,561
— ¹	— ¹	— ¹	4,160,428	13,258,136	3,888,892
7,657,656	20,611,038	6,447,489	1,015,266	2,406,719	805,451
5,946,226	14,591,692	4,615,599	4,150,625	10,682,547	3,541,430
— ¹	— ¹	— ¹	2,271,099	5,704,359	1,494,232
— ¹	— ¹	— ¹	1,879,526	4,978,188	2,047,198
18,080,538	56,690,823	14,334,136	13,607,468	42,219,170	12,854,454
— ¹	— ¹	— ¹	7,538,423	21,477,465	4,919,907
— ¹	— ¹	— ¹	2,791,283	8,965,689	2,269,692
— ¹	— ¹	— ¹	4,747,140	12,511,776	2,650,215
— ¹	— ¹	— ¹	6,069,045	20,741,705	7,934,547
— ¹	— ¹	— ¹	1,355,032	4,314,011	1,862,918
— ¹	— ¹	— ¹	1,791,875	6,019,750	2,323,071
— ¹	— ¹	— ¹	2,922,138	10,407,944	3,748,558
16,542,863	32,696,616	8,149,885	18,911,098	34,837,645	8,357,448
11,521,470	18,618,999	16,612,012	6,639,928	9,810,361	12,995,414
423,551	1,083,011	467,929	842,066	1,012,723	650,559
4,778,634	7,170,892	11,175,205	4,216,632	6,501,827	10,430,622
6,319,285	10,365,096	4,968,878	1,581,230	2,295,811	1,914,233
— ¹	— ¹	— ¹	2,963,715	2,850,866	2,465,066
— ¹	— ¹	— ¹	1,043,266	1,216,741	1,099,799
— ¹	— ¹	— ¹	1,920,449	1,634,125	1,365,267
— ¹	— ¹	— ¹	2,435,134	2,492,066	2,233,432
— ¹	— ¹	— ¹	528,581	358,800	231,634

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

		1925
	Pounds	Value
Cotton yarns for sale	626,356,804	\$313,060,245
Connecticut	9,352,256	5,948,187
Georgia	96,871,514	39,903,147
Maine	— ¹	— ¹
Massachusetts	68,914,956	44,888,679
New Hampshire	— ¹	— ¹
North Carolina	269,327,951	134,438,954
Rhode Island	13,901,151	9,598,581
South Carolina	50,469,439	23,814,439
Tennessee	17,302,732	10,588,638
Texas	— ¹	— ¹
Alabama and Kentucky	— ¹	— ¹
All other states	100,216,805	43,879,620
Carded	— ¹	— ¹
Yarns for sewing thread, crochet, darning, hand knitting and embroidery cotton	— ¹	— ¹
All other including those for weaving and machine knitting	— ¹	— ¹
Alabama	— ¹	— ¹
Connecticut	— ¹	— ¹
Georgia	— ¹	— ¹
Maine	— ¹	— ¹
Massachusetts	— ¹	— ¹
New York	— ¹	— ¹
North Carolina	— ¹	— ¹
South Carolina	— ¹	— ¹
Tennessee	— ¹	— ¹
New Hampshire and Rhode Island	— ¹	— ¹
All other states	— ¹	— ¹
Combed	— ¹	— ¹
Yarns for sewing thread, crochet, darning, hand knitting and embroidery cotton	— ¹	— ¹
Massachusetts	— ¹	— ¹
All other states	— ¹	— ¹
All other combed yarns for sale including those for weaving and machine knitting	— ¹	— ¹
Massachusetts	— ¹	— ¹
North Carolina	— ¹	— ¹
South Carolina	— ¹	— ¹
All other states	— ¹	— ¹
Thread	34,167,096	53,284,496
Massachusetts	12,616,783	21,352,697
All other states	21,550,313	31,931,799

¹ Not reported.

Goods; and Yarns for Sale, 1925, 1927 and 1929—(Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1927		1929	
Pounds	Value	Pounds	Value
664,334,562	\$253,663,750	647,725,439	\$253,349,111
8,600,007	4,759,315	11,977,843	6,102,331
112,582,675	35,522,417	110,415,281	37,361,812
5,828,146	2,476,915	7,366,952	3,399,143
58,338,062	29,752,778	47,130,562	25,899,549
— ¹	— ¹	13,554,309	4,629,434
301,713,924	117,703,529	316,170,435	120,462,122
12,150,894	6,833,897	13,069,334	7,957,990
56,113,702	20,540,146	38,045,962	14,378,969
18,336,707	7,538,249	18,234,975	7,799,962
3,373,751	998,167	1,776,420	548,178
— ¹	— ¹	54,194,103	19,240,151
87,296,694	27,538,337	15,789,263	5,569,470
503,547,898	161,795,397	498,312,964	164,795,397
4,049,556	1,554,347	6,709,744	2,745,225
499,498,342	160,272,282	491,603,220	162,050,172
40,863,465	12,280,952	42,380,435	14,038,721
5,721,718	2,165,587	8,656,474	3,511,441
107,239,070	33,073,885	102,730,757	34,119,582
— ¹	— ¹	6,924,408	3,078,262
32,861,349	12,591,956	26,036,408	11,134,960
— ¹	— ¹	7,496,566	2,602,792
213,314,919	67,851,779	220,798,134	66,553,874
— ¹	— ¹	28,585,636	9,698,557
7,587,784	2,458,231	12,663,699	4,784,820
— ¹	— ¹	20,846,699	7,607,707
91,910,037	29,849,892	14,482,404	4,919,456
160,786,664	91,837,121	149,412,475	88,553,714
10,618,750	8,111,222	11,372,659	8,396,078
5,789,968	4,046,238	6,243,694	4,710,274
4,828,782	4,064,984	5,128,965	3,685,804
150,167,914	83,725,899	138,039,816	80,157,636
18,596,808	12,568,402	13,613,517	9,609,139
87,280,567	49,071,217	92,264,172	52,291,158
— ¹	— ¹	7,606,792	3,974,219
44,290,539	22,086,280	24,555,335	14,283,120
29,992,472	46,409,250	25,250,378	37,099,794
10,444,608	14,387,015	8,699,587	9,499,783
19,547,864	32,022,235	16,550,791	27,600,011

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

		1925
	Pounds	Value
Cotton yarns for sale — concluded		
Twine ³	21,292,464	\$8,915,835
Batting, wadding and mattress felts ⁴	90,680,985	14,133,701
Cotton Card laps, sliver and rovings	4,957,481	1,798,914
Cotton Waste	417,094,448	40,622,879
Alabama	21,996,200	1,690,927
Arkansas	— ¹	— ¹
Connecticut	10,031,584	1,150,658
Georgia	44,536,442	3,046,736
Massachusetts	95,246,139	10,971,474
Mississippi	— ¹	— ¹
New Hampshire	20,434,857	1,359,220
New Jersey	— ¹	— ¹
New York	6,012,418	565,782
North Carolina	82,974,410	8,614,991
Pennsylvania	— ¹	— ¹
Rhode Island	38,923,144	4,946,701
South Carolina	59,230,427	4,903,946
Tennessee	5,462,037	555,193
Texas	3,703,207	254,004
Virginia	5,242,434	465,876
All other states	23,301,149	2,097,371
Other cotton products	— ¹	21,279,826
Old bagging and ties	— ¹	2,120,099

¹ Not reported.² Exclusive of data for cord fabric for tires.

Goods; and Yarns for Sale, 1925, 1927 and 1929—(Concluded)

Bureau of the Census

without disclosing the operations of individual establishments

1927		1929	
Pounds	Value	Pounds	Value
28,280,334	\$9,560,376	40,642,518	\$14,650,396
129,836,214	16,304,439	149,481,003	19,406,875
3,417,880	980,406	10,134,267	1,760,475
484,416,320	26,808,651	444,124,320	32,586,050
28,273,587	1,239,147	31,257,406	2,005,909
— ¹	— ¹	1,051,811	40,566
11,853,756	916,170	12,367,165	1,211,551
66,370,095	2,664,831	58,794,658	3,526,825
99,468,721	6,790,087	79,406,777	7,252,484
— ¹	— ¹	2,337,774	117,668
16,038,130	660,520	12,421,049	731,238
— ¹	— ¹	2,506,372	252,581
5,303,208	288,557	4,050,176	263,110
107,186,700	6,718,752	107,881,811	8,131,546
1,484,194	59,147	1,126,795	64,604
23,931,204	1,762,473	20,067,925	1,975,342
77,563,463	3,590,499	73,372,055	4,783,897
8,640,339	441,239	9,583,075	749,023
6,475,109	268,773	5,292,703	241,122
6,787,871	289,019	4,683,033	228,169
25,039,943	1,119,437	17,923,735	1,010,415
— ¹	17,798,415	— ¹	15,310,989
— ¹	1,414,226	— ¹	1,319,502

³ The figures given in this table relate solely to the products of establishments in the cotton-goods industry, and therefore do not include data for the production of cotton twine by establishments engaged primarily in the manufacture of cordage and twine. The total production of cotton twine by all establishments reporting the manufacture of such twine was as follows: For 1929, 85,988,140 pounds, valued at \$28,991,411; for 1927, 64,208,265 pounds, valued at \$20,159,793; for 1925, 49,940,793 pounds, valued at \$19,734,136; for 1923, 38,881,492 pounds, valued at \$17,053,949.

⁴ Not including mattress felts made in mattress factories.

**Principal Classes of Cotton Goods produced by Sections,
1923, 1925, 1927 and 1929**

	1923	1925	1927	1929
<i>Woven Goods (over 12 inches Wide)</i>				
United States:				
Pounds	2,205,432,778	2,070,985,006	2,433,709,519	2,366,518,514
Square Yards	8,163,492,413 ¹	7,564,603,562 ¹	8,800,673,996 ¹	8,284,317,582 ¹
Value	\$1,398,901,764	\$1,245,139,031	\$1,183,760,651	\$1,139,979,533
Cotton-growing States:				
Pounds	1,355,759,951	1,346,922,487	1,705,309,091	1,762,398,489
Square yards	4,750,822,944 ¹	4,768,324,846 ¹	5,944,942,493 ¹	5,991,260,879 ¹
Value	\$706,513,963	\$653,000,522	\$666,331,228	\$720,954,591
New England States:				
Pounds	713,216,097	589,081,919	608,228,688	504,073,490
Square yards	3,087,858,032 ¹	2,536,464,967 ¹	2,588,024,848 ¹	2,052,486,954 ¹
Value	\$563,108,841	\$459,897,228	\$413,218,579	\$354,594,672
<i>Shirtings</i>				
United States:				
Pounds	84,915,262	103,643,271	90,981,801	78,486,836
Square yards	341,224,666	455,396,750	378,530,166	317,045,592
Value	\$72,335,354	\$75,756,889	\$55,437,170	\$45,771,241
Cotton-growing States:				
Pounds	57,156,967	70,601,600	71,531,796	62,406,362
Square yards	214,252,312	295,392,733	282,695,502	244,575,177
Value	\$39,762,947	\$40,288,493	\$35,019,983	\$31,718,716
New England States				
Pounds	27,115,492	32,373,921	18,740,176	15,571,663
Square Yards	123,853,206	156,851,723	93,464,317	70,410,983
Value	\$30,672,284	\$34,332,062	\$19,409,525	\$13,421,375
<i>Fabrics (other than Shirtings) in chief value of cotton, containing rayon</i>				
United States:				
Pounds	— ²	— ²	32,795,542	21,963,487
Square yards	— ²	— ²	163,824,938	111,979,184
Value	— ²	— ²	\$41,644,800	\$28,984,042
Cotton-growing States:				
Pounds	— ²	— ²	9,266,977	6,842,715
Square yards	— ²	— ²	40,299,665	26,891,241
Value	— ²	— ²	\$8,280,775	\$6,245,296
New England States:				
Pounds	— ²	— ²	20,524,997	13,837,504
Square yards	— ²	— ²	109,825,302	80,645,059
Value	— ²	— ²	\$26,823,215	\$20,020,196
<i>Fabrics (except draperies) entirely or in chief value of rayon</i>				
United States:				
Pounds	— ²	— ²	20,509,177	14,843,679
Square yards	— ²	— ²	117,052,733	85,664,430
Value	— ²	— ²	\$36,300,172	\$24,160,789
Cotton-growing States:				
Pounds	— ²	— ²	5,426,124	3,397,303
Square yards	— ²	— ²	35,517,081	18,165,403
Value	— ²	— ²	\$9,589,201	\$6,262,294
New England States:				
Pounds	— ²	— ²	14,627,724	10,667,230
Square yards	— ²	— ²	80,195,383	63,004,523
Value	— ²	— ²	\$24,711,669	\$16,278,071

Principal Classes of Cotton Goods produced by Sections,
1923, 1925, 1927 and 1929—(Continued)

	1923	1925	1927	1929
<i>Other Woven Goods (over 12 inches in Width)</i>				
United States:				
Pounds	415,586,197	418,511,477	448,605,085	475,024,297
Square yards	1,673,507,005	1,755,374,579	1,835,505,709	1,929,682,417
Value	\$308,307,301	\$313,171,833	\$238,190,994	\$267,670,498
Cotton-growing States:				
Pounds	222,939,293	230,799,554	274,266,474	303,192,054
Square yards	673,301,345	762,595,413	904,345,648	1,024,852,734
Value	\$112,489,763	\$116,277,512	\$102,597,323	\$127,404,556
New England States:				
Pounds	229,239,747	196,906,484	103,964,649	149,190,378
Square yards	1,217,672,383	1,110,843,265	963,761,100	868,183,721
Value	\$216,010,122	\$189,987,261	\$125,149,750	\$131,350,048
<i>Reps, Poplins, and Broadcloths</i>				
United States:				
Pounds	— ²	— ²	60,821,531	70,678,442
Square yards	— ²	— ²	264,724,549	308,620,221
Value	— ²	— ²	\$37,655,931	\$40,554,626
Cotton-growing States				
Pounds	— ²	— ²	24,972,134	34,031,877
Square yards	— ²	— ²	107,416,713	148,209,102
Value	— ²	— ²	\$12,903,663	\$16,529,035
New England States:				
Pounds	— ²	— ²	34,785,262	35,819,426
Square yards	— ²	— ²	153,071,310	156,304,771
Value	— ²	— ²	\$24,250,303	\$23,584,497
<i>Lawns, Nainsooks, Cambric, and Similar Muslins</i>				
United States:				
Pounds	56,965,110	47,566,144	37,000,333	31,144,397
Square yards	367,209,215	326,087,427	272,453,611	226,553,738
Value	\$57,277,453	\$43,323,433	\$32,100,888	\$25,418,595
Cotton-growing States				
Pounds	14,806,256	18,270,726	5,462,553	6,702,847
Square yards	87,501,636	105,498,813	35,325,951	39,341,757
Value	\$10,348,294	\$10,724,273	\$3,430,322	\$4,089,601
New England States				
Pounds	38,976,183	28,500,126	31,237,799	22,961,295
Square yards	268,066,419	215,966,959	235,188,052	178,776,565
Value	\$46,371,298	\$31,906,552	\$28,454,314	\$20,243,883
<i>Print Cloth</i>				
United States:				
Pounds	258,956,432	195,594,472	270,577,116	301,479,145
Square yards	1,578,196,293	1,166,374,053	1,583,861,282	1,703,025,248
Value	\$144,054,051	\$98,452,763	\$109,826,442	\$121,423,305
Cotton-growing States:				
Pounds	178,740,595	155,732,801	224,312,537	268,369,081
Square yards	1,012,068,327	906,454,838	1,300,293,077	1,520,452,569
Value	\$94,648,848	\$76,728,562	\$89,166,271	\$106,897,695
New England States:				
Pounds	76,138,011	39,327,476	45,802,878	32,940,696
Square yards	544,160,570	257,096,645	281,097,050	181,683,097
Value	\$47,203,688	\$21,448,662	\$20,454,076	\$14,456,454

**Principal Classes of Cotton Goods produced by Sections,
1923, 1925, 1927 and 1929—(Continued)**

	1923	1925	1927	1929
<i>Sheetings</i>				
United States:				
Pounds	410,765,976	369,375,945	435,706,842	396,021,293
Square yards	1,695,520,069	1,638,168,738	1,857,476,174	1,693,167,162
Value	\$208,338,025	\$180,357,058	\$167,888,002	\$146,181,212
Cotton-growing States:				
Pounds	306,611,734	284,700,475	348,641,419	336,680,578
Square yards	1,305,829,140	1,318,671,398	1,557,195,980	1,465,802,480
Value	\$146,532,472	\$128,586,070	\$121,890,654	\$118,225,214
New England States:				
Pounds	86,665,991	70,262,227	69,549,295	48,467,016
Square yards	329,035,866	270,166,289	236,976,999	176,482,256
Value	\$50,158,249	\$42,697,037	\$36,260,780	\$23,010,642
<i>Plushes, Velvets, and Velveteens</i>				
United States:				
Pounds	24,061,745	30,609,434	35,641,022	41,777,351
Square yards	27,710,667	33,478,404	42,689,229	59,393,597
Value	\$35,620,967	\$40,678,952	\$45,710,213	\$41,760,522
Cotton-growing States:				
Pounds	— ²	— ²	3,080,319	11,661,334
Square yards	— ²	— ²	4,618,427	21,911,987
Value	— ²	— ²	\$2,033,678	\$9,903,604
New England States:				
Pounds	4,480,805	4,719,163	11,852,900	10,151,027
Square yards	7,500,839	7,593,826	14,195,099	14,927,869
Value	\$6,978,012	\$6,395,665	\$10,929,316	\$9,698,874
<i>Twills and Sateens</i>				
United States:				
Pounds	152,797,166	151,500,381	111,972,833	82,492,337
Square yards	489,380,066	532,830,805	413,996,565	284,117,406
Value	\$91,589,275	\$84,133,051	\$50,336,045	\$37,441,206
Cotton-growing States:				
Pounds	70,556,903	79,441,726	56,481,340	44,284,959
Square yards	160,579,897	227,710,989	170,574,064	125,078,276
Value	\$31,770,025	\$35,635,823	\$20,556,885	\$17,113,831
New England States:				
Pounds	72,823,766	64,489,089	46,832,613	27,283,705
Square yards	288,703,542	274,708,851	203,688,928	120,411,831
Value	\$52,894,403	\$44,307,626	\$25,573,700	\$15,568,694
<i>Napped Fabrics</i>				
United States:				
Pounds	116,224,670	101,058,550	125,944,806	108,879,302
Square yards	381,396,884	340,415,819	400,097,211	323,140,452
Value	\$69,635,301	\$53,606,741	\$55,386,356	\$48,329,469
Cotton-growing States:				
Pounds	60,895,308	56,026,111	83,540,474	80,604,848
Square yards	192,187,132	184,413,628	268,232,790	242,528,331
Value	\$34,811,999	\$27,666,448	\$32,668,441	\$33,612,844
New England States:				
Pounds	55,318,384	45,032,439	42,029,514	28,083,251
Square yards	189,207,681	156,002,191	131,190,363	80,047,655
Value	\$34,812,328	\$25,940,293	\$22,371,027	\$14,580,040

**Principal Classes of Cotton Goods produced by Sections,
1923, 1925, 1927 and 1929—(Continued)**

	1923	1925	1927	1929
<i>Denims</i>				
United States:				
Pounds	123,518,010	103,958,090	144,605,484	141,853,387
Square yards	225,640,344	180,491,656	254,117,955	249,891,122
Value	\$60,949,235	\$46,092,096	\$49,791,845	\$49,256,461
Cotton-growing States:				
Pounds	101,049,044	89,183,809	126,467,966	129,561,967
Square yards	186,778,070	156,357,273	222,617,676	227,914,292
Value	\$49,297,002	\$39,345,604	\$43,462,326	\$44,590,566
New England States:				
Pounds	20,186,766	14,090,675	18,134,204	12,291,420
Square yards	34,802,177	22,950,331	31,490,617	21,976,830
Value	\$10,384,672	\$6,269,906	\$6,327,928	\$4,665,895
<i>Tickings</i>				
United States:				
Pounds	20,438,417	20,842,173	24,567,950	19,931,428
Square yards	53,499,190	48,362,153	59,283,350	42,410,547
Value	\$11,452,767	\$10,304,978	\$10,358,553	\$9,280,484
Cotton-growing States:				
Pounds	12,666,376	13,875,947	17,220,575	14,470,733
Square yards	36,359,084	33,669,960	44,768,437	34,439,264
Value	\$6,776,725	\$6,539,758	\$6,811,818	\$6,496,017
New England States:				
Pounds	5,440,760	4,825,416	5,071,150	3,727,840
Square yards	12,898,245	10,825,708	10,407,714	4,853,369
Value	\$3,063,602	\$2,451,811	\$2,339,954	\$1,874,695
<i>Tire Fabrics</i>				
United States:				
Pounds	163,686,944	189,345,195	197,353,058	253,617,264
Square yards	125,827,941 ¹	65,161,993 ¹	46,190,864 ¹	45,636,348 ¹
Value	\$106,079,633	\$105,625,894	\$80,974,199	\$112,853,660
Cotton-growing States:				
Pounds	60,134,363	86,233,101	113,203,157	164,367,468
Square yards	69,731,579 ¹	39,294,939 ¹	29,079,379 ¹	37,262,761 ¹
Value	\$36,382,252	\$44,722,472	\$44,513,833	\$72,248,291
New England States:				
Pounds	81,258,613	73,764,042	70,034,740	82,553,262
Square yards	42,020,285 ¹	20,033,458 ¹	12,832,438 ¹	4,307,800 ¹
Value	\$54,390,297	\$43,425,210	\$30,959,916	\$37,876,380
<i>Towels, Towelings, and Wash Cloths</i>				
United States:				
Pounds	58,538,617	61,063,456	83,848,302	70,973,774
Square yards	122,645,597	126,565,750	169,997,031	169,694,153
Value	\$36,692,663	\$38,149,566	\$42,611,371	\$33,037,277
Cotton-growing States:				
Pounds	42,569,711	46,960,997	68,988,386	60,894,758
Square yards	87,415,092	96,323,500	141,454,594	144,936,627
Value	\$24,749,144	\$26,787,983	\$32,763,647	\$26,895,312
New England States:				
Pounds	2,415,846	3,627,010	3,996,090	3,642,307
Square yards	6,418,358	8,442,932	8,351,990	10,680,861
Value	\$1,267,337	\$2,165,349	\$1,580,916	\$1,478,928

**Principal Classes of Cotton Goods produced by Sections,
1923, 1925, 1927 and 1929—(Concluded)**

	1923	1925	1927	1929
<i>Bed Spreads and Quilts</i>				
United States:				
Pounds	19,523,614	21,367,170	24,026,764	17,758,093
Square yards	35,690,784	52,636,525	71,282,515	52,901,717
Value	\$13,552,257	\$16,703,225	\$18,949,735	\$16,395,884
Cotton-growing States:				
Pounds	5,859,690	9,367,889	15,214,145	10,021,838
Square yards	11,287,025	26,130,171	46,627,359	31,013,695
Value	\$3,834,210	\$6,588,756	\$10,308,940	\$9,215,039
New England States:				
Pounds	13,155,733	11,163,851	8,044,698	6,885,470
Square yards	23,518,461	24,982,789	22,288,186	19,789,764
Value	\$8,902,549	\$8,569,794	\$7,619,190	\$6,486,000
<i>Cotton Yarns produced for Sale</i>				
United States:				
Pounds	620,725,267	626,356,804	664,334,562	647,765,439
Value	\$348,684,605	\$313,060,245	\$253,663,750	\$253,349,111
Cotton-growing States:				
Pounds	451,634,879	490,781,024	552,445,185	541,876,854
Value	\$232,994,306	\$233,256,323	\$201,566,673	\$200,734,662
New England States:				
Pounds	113,309,662	109,122,875	92,730,062	93,099,000
Value	\$79,800,563	\$68,178,429	\$46,309,827	\$47,988,447
<i>Cotton Waste Produced for Sale</i>				
United States:				
Pounds	378,640,237	417,094,448	484,416,320	444,124,320
Value	\$37,305,876	\$40,622,879	\$26,808,651	\$32,586,050
Cotton-growing States:				
Pounds	190,759,043	228,117,859	307,940,580	299,273,756
Value	\$17,037,789	\$19,921,449	\$15,506,444	\$20,098,868
New England States:				
Pounds	172,783,013	172,547,874	161,907,079	134,714,084
Value	\$18,512,631	\$19,137,296	\$10,574,381	\$11,838,210

¹ Exclusive of data for cord fabric for tires.

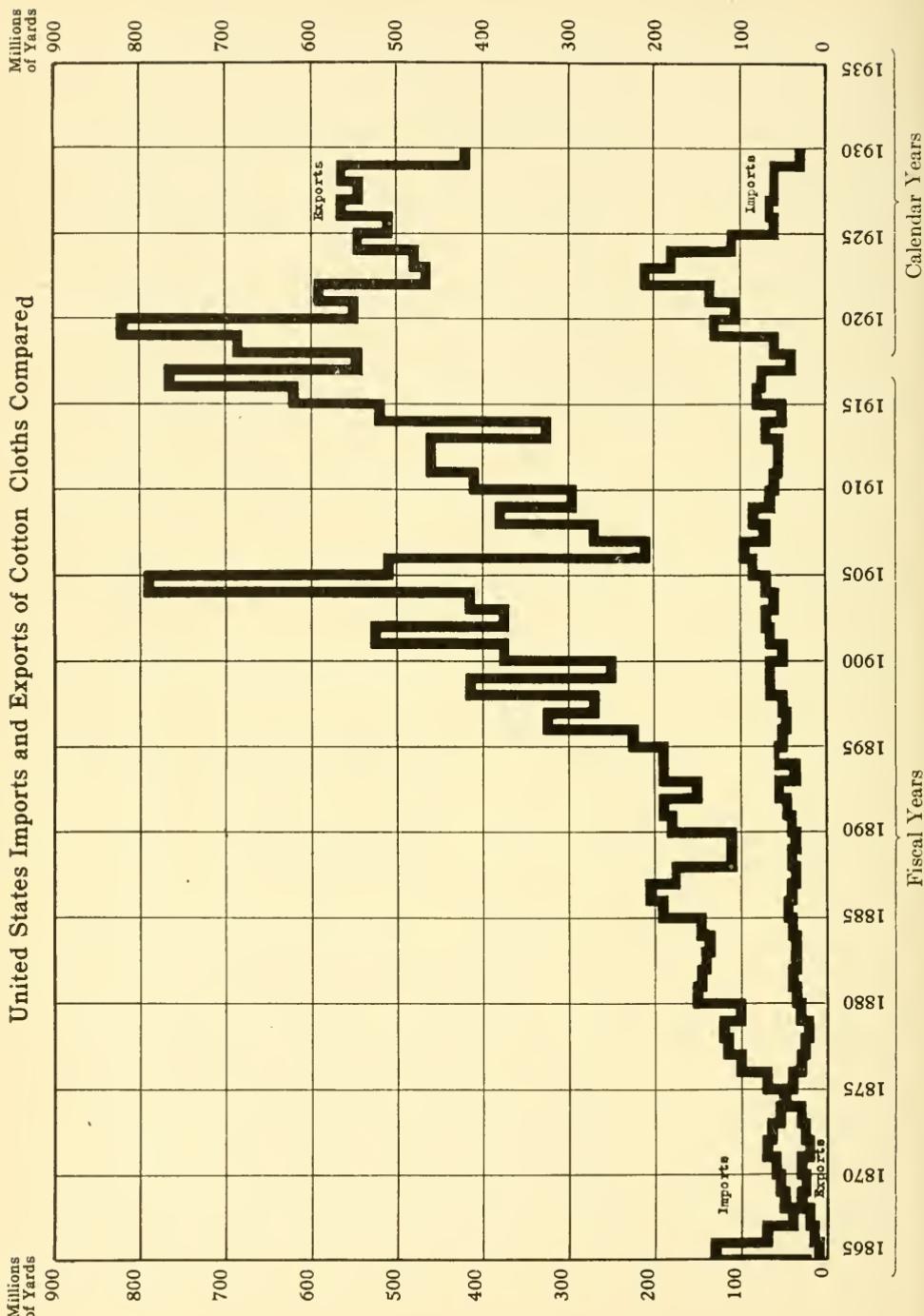
² Not reported.

Estimated Weekly Sales of Print Cloths at Fall River

[In thousands of pieces]

Source: J. M. Prendergast & Co.

WEEK ENDING		1923-24	1924-25	1925-26	1926-27	1927-28	1928-29	1929-30
July	28	—	130	80	130	60	30	30
August	4	20	100	50	100	60	30	30
	11	80	60	50	130	100	30	40
	18	130	40	40	80	75	40	30
	25	350	30	40	90	120	30	30
September	1	160	25	40	100	70	40	40
	8	200	25	40	90	50	40	30
	15	190	30	100	80	75	40	40
	22	180	100	120	75	60	40	40
	29	130	100	100	70	40	40	40
October	6	60	60	60	50	50	40	40
	13	50	40	60	50	50	30	40
	20	100	60	40	50	50	40	40
	27	130	75	40	50	50	40	30
November	3	130	300	40	60	50	30	30
	10	300	70	50	50	60	30	30
	17	60	40	50	50	50	30	30
	24	100	40	60	40	40	40	30
December	1	180	30	40	50	50	30	30
	8	85	40	50	50	50	30	30
	15	50	30	40	40	40	30	30
	22	60	75	50	70	60	30	30
	29	50	40	40	75	50	30	30
January	5	50	70	40	80	40	20	30
	12	40	60	75	150	40	30	30
	19	50	70	90	175	40	30	40
	26	50	80	100	120	40	30	35
February	2	50	80	100	100	40	30	35
	9	80	80	70	75	80	30	35
	16	40	65	75	70	40	40	30
	23	50	75	60	80	40	30	30
March	2	80	70	50	90	40	30	30
	9	40	60	50	100	40	40	30
	16	70	40	60	80	40	40	30
	23	60	30	40	75	40	40	30
	30	50	30	40	70	50	40	30
April	6	120	25	40	75	40	30	30
	13	200	40	40	60	40	30	30
	20	50	30	30	70	40	30	30
	27	30	30	50	75	50	40	30
May	4	40	30	50	100	60	30	30
	11	40	30	75	100	40	30	30
	18	25	40	80	75	25	30	30
	25	25	30	75	100	30	30	30
June	1	50	30	75	90	30	30	30
	8	50	60	60	80	20	30	30
	15	70	75	50	75	30	40	30
	22	30	80	60	90	30	30	30
	29	25	100	60	75	40	40	30
July	6	25	100	75	60	30	30	20
	13	30	80	100	60	40	30	30
	20	60	75	110	70	30	40	30
	27	150	75	90	60	30	30	30



**United States Imports and Exports of Cotton Yarns and Cloth during
Calendar Years**

Source: United States Department of Commerce

Year	Yarn Exports, Pounds	Yarn Imports, Pounds	Cloth Exports (Linear Yards)	Cloth Imports (Square Yards)
1900			257,910,508	53,264,507
1901			376,233,960	41,891,885
1902			525,495,309	56,199,911
1903			374,074,192	59,250,082
1904			434,989,686	44,755,238
1905			790,259,024	61,381,256
1906			512,229,720	78,321,752
1907			216,387,642	91,613,881
1908			272,242,179	60,099,151
1909			380,521,971	73,803,398
1910			295,736,336	55,276,921
1911			410,200,201	52,031,130
1912			464,253,126	45,497,927
1913			466,677,252	46,563,568
1914			326,477,889	62,272,013
1915			518,338,302	42,759,670
1916			620,255,896	66,406,638
1917			764,621,892	65,296,802
1918			544,174,574	32,839,569
1919			683,045,326	49,753,481
1920			818,750,954	141,330,861
1921	14,294,176	3,140,102	551,512,942	106,308,379
1922	15,503,860	5,426,987	587,492,532 ¹	142,000,000 ²
1923	12,081,384	5,269,354	464,520,397 ¹	218,970,307 ²
1924	13,673,509	3,733,422	477,815,408 ¹	177,385,654
1925	21,891,810	3,618,657	543,316,851 ¹	109,249,133
1926	24,036,636	3,661,164	513,299,791 ¹	60,680,157
1927	28,540,555	3,304,737	565,020,728 ¹	63,002,117
1928	26,624,512	2,596,494	546,847,456 ¹	61,295,454
1929	27,491,212	2,681,194	564,447,306 ¹	61,185,157
1930	18,130,980	1,653,174	416,289,981 ¹	35,517,327

¹ Square yards.

² Partly estimated, as imports of cotton cloth were reported in pounds only from September 22, 1922, to March 31, 1923.

United States Imports of Cotton Manufactures, by Classes of Goods, in Terms of Quantity

[Figures are for calendar years]

Source: United States Department of Commerce

This table embraces only those classes of goods which can be expressed in units of quantity. It does not include, necessarily, other classes which cannot be so expressed. The table on imports expressed in terms of value includes all the imports of manufactures of cotton.

	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
Cotton thread and yarn;										
Thread and yarns, warps or warp yarn, on beans, in skeins, etc. (pounds)	3,140,102	5,426,987	5,269,354	3,733,422	3,618,657	3,661,164	3,304,737	2,596,494	2,681,194	1,653,174
Sewing thread, crochet, darning and knitting cotton (100 yards)	45,966,524	51,803,837	42,326,041	36,993,538	29,902,175	21,889,760	21,376,539	17,772,252	16,098,224	14,463,839
Cloths;										
Unbleached (square yards)	16,365,557	23,028,859 ¹	95,186,119 ²	114,729,968	75,397,414	33,114,973	27,451,062	23,514,533	20,455,167	11,320,398
Bleached (square yard)	22,582,543	17,863,670 ¹	14,888,305 ²	5,703,554	4,831,677	5,236,245	10,146,429	11,301,486	13,163,455	6,988,306
Colored, dyed, printed and woven-figured (square yards)	—	108,895,982 ³	56,052,132	29,020,042	22,328,339	25,404,326	26,479,435	27,566,555	17,298,623	—
Total cloths (square yards)	106,330,598	109,648,083 ¹	128,970,307 ²	177,385,654	109,249,133	60,680,157	63,002,117	61,295,454	61,185,157	35,517,327
Laces, embroideries, etc., and articles made therefrom (except wearing apparel);										
Lace window curtains (square yards)	991,634	1,729,452	1,953,433	1,363,581	1,290,069	1,463,781	2,338,179	1,857,595	962,349	— ³
Pile fabrics and Terry-woven fabrics (square yards)	307,582	121,785 ¹	364,516 ⁴	431,451 ⁴	555,201 ⁴	—	—	3,580,213	3,145,287	— ³
Velvet and Velvetines and Jacquard figured upholstery goods (square yards)	2,846,356	1,675,494 ¹	734,838 ⁴	1,224,372 ⁴	1,943,460 ⁴	29,735,862	24,729, ^{—3}	48,108,091	41,207, ^{—3}	698,102
Waste or flock (pounds)	4,861,682	28,399,261	77,022,832	33,664,041	36,393,055	—	—	—	—	— ⁴
Wearing apparel;										
Knit goods;										
Gloves (dozen pairs)	1,114,080	1,774,978	1,158,420	1,364,980	1,659,131	2,111,429	2,186,618	2,403,506	1,978,236	1,762,167
Hosiery (dozen pairs)	—	756,028	1,357,602	611,718	530,939	563,246	497,258	527,899	796,508	511,567
All other knit goods (dozens)	—	31,522	10,528	111,337	105,823	83,698	163,263	83,545	— ³	511,839

¹ January 1 to September 21, after which new tariff law is in effect.

² Estimated.

³ Quantity not available.

⁴ Pounds only reported after September 21, 1922.

United States Imports of Cotton Manufactures, by Classes of Goods, in Terms of Value

[Figures are for calendar years]

Source: United States Department of Commerce

	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
Cotton thread and yarn:										
Thread and carded yarns, warps, or warp yarns, on beams, in skeins, etc.	\$3,752,332	\$6,038,543	\$5,666,886	\$4,488,994	\$5,316,498	\$4,315,168	\$3,752,930	\$3,310,854	\$3,311,484	\$1,812,608
Sewing thread, crochet, darning and knitting cotton	1,980,146	2,753,007	3,188,622	3,066,900	3,464,008	2,387,969	1,961,519	1,482,036	1,226,098	1,018,701
Cloths:										
Unbleached	2,916,817	7,033,985	18,287,386	21,889,138	15,422,983	6,838,585	5,155,708	4,732,851	4,449,257	2,388,955
Bleached	5,830,112	6,068,135	3,096,394	1,557,653	1,584,316	1,532,385	2,154,285	2,407,850	2,556,361	1,453,184
Colored, dyed, printed and woven-figured	—	25,071,330	25,204,253	14,265,655	9,416,827	7,886,551	8,286,044	8,680,999	8,845,437	5,583,490
Total cloths										
Lace window curtains	\$26,426,249	\$39,073,450	\$47,188,033	\$37,703,446	\$26,424,126	\$16,257,721	\$15,596,037	\$15,841,700	\$15,901,255	\$9,425,629
Laces and lace articles, including lace edgings, insertings, and galloons:	36,474	76,786	722,875	517,896	473,014	500,386	667,564	515,011	932,349	272,920
Hand-made										
All other	589,219	2,325,623	9,686,109	2,168,354	2,083,357	1,635,559	982,607	1,265,884	587,424	394,659
Nets and nettings	897,147	1,039,362	1,139,355	11,951,227	7,612,553	5,074,668	4,924,560	719,556	5,270,562	—
Total lace	1,815,438	1,405,691 ²	1,139,355	11,951,227	11,093,294 ²	11,049,007 ²	11,047,473 ²	1,403,196 ²	1,721,591 ²	1,887,403 ²
Total fabrics and Terry-woven fabrics	\$16,703,583	\$14,541,585	\$17,013,228	\$20,165,883	\$14,002,994	\$12,086,228	\$12,475,937	\$11,232,110 ³	\$11,232,305 ³	\$8,755,952
Velvet and Velveteens	256,295	245,887	899,837	933,782	1,177,679	2,385,810	2,736,031	2,749,641	2,326,213	512,204
Tapestries and Jacquard-figured uphol-										
sterly goods	1,781,969	1,145,565	1,196,207	1,947,198	3,264,576	4,345,233	5,467,679	5,068,301	4,650,499	3,415,561
Waste or flocks	309,905	2,674,371	6,727,755	3,244,346	3,726,692	2,147,002	1,622,772	3,011,776	2,478,377	1,302,450
Wearing apparel:										
Product of the Philippine Islands	5,154,258	2,353,312	393,735	3,702,744	3,958,870	5,421,516	3,521,176	3,639,278	4,604,988	3,106,475
Knit goods	4,819,238	7,574,605	5,731,283	5,947,218	7,724,153	8,416,667	8,761,734	11,197,469	9,078,089	7,702,324
Gloves	3,271,300	5,360,454	4,034,413	4,246,798	5,488,064	6,513,666	8,229,640	5,809,462	5,757,479	2,593,261
Hosiery	1,358,334	2,141,124	1,326,247	1,466,318	1,942,246	1,612,447	1,783,428	2,606,015	1,522,630	1,322,630
All other knit goods	189,504	73,087	370,623	261,102	293,843	290,554	430,686	374,518	663,212	422,209
Total manufactures of cotton										
	\$75,428,223	\$87,069,809	\$100,154,179	\$80,913,637	\$79,271,008	\$66,197,880	\$66,159,329	\$66,197,880	\$69,294,624	\$69,293,587
										\$46,220,653

¹ Not separately classified.² Includes veils and veilings."³ Not reported.

United States Imports of Cotton Manufactures, by Countries

[Statistics are for calendar years]

Source: United States Department of Commerce

COUNTRIES	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
Europe:										
United Kingdom	\$27,917,368	\$39,003,963	\$51,222,189	\$42,447,766	\$34,177,328	\$22,038,371	\$19,869,860	\$19,896,006	\$18,592,339	\$10,372,947
Germany	7,417,485	12,352,330	17,082,150	12,302,445	13,834,711	14,213,079	14,251,278	16,224,481	14,733,534	10,594,434
France	9,441,632	11,267,774	13,713,905	16,402,486	12,361,148	10,296,808	10,967,913	10,455,317	11,048,479	8,745,459
Switzerland	15,177,834	11,188,442	5,968,020	4,414,537	3,188,582	3,246,417	4,528,156	4,564,329	4,234,017	2,581,559
Belgium	424,198	692,459	1,045,921	1,280,353	1,187,923	1,263,087	1,943,748	2,203,775	2,468,666	1,826,265
Austria	89,856	145,247	1,236,087	1,578,784	1,722,977	1,543,877	1,339,379	1,317,698	1,180,302	1,180,302
Italy	800,992	613,800	102,192	55,748	54,052	18,026	1,920,206	1,896,532	2,035,601	2,363,234
Spain	67,940	55,748	96,748	985,103	1,478,106	2,388,344	27,451	35,989	71,493	33,512
Czechoslovakia	329,938	697,288	1,241,818	22,418	53,775	18,682	16,005	18,093	33,742	1,453,308
Turkey (including Asian Turkey)	55,328	1,030,848	925,430	82,894	533,784	633,392	420,585	420,585	27,552	22,266
All other Europe	938,069								556,974	446,701
America:										
Canada	344,590	211,722	263,439	135,949	252,481	188,397	208,698	212,871	140,276	202,698
Mexico	78,365	221,146	100,897	46,430	138,186	69,143	164,447	509,006	389,758	262,703
All other America	8,554	20,088	30,469	48,016	30,093	76,240	19,944	18,514	37,428	10,991
Japan	3,731,293	4,157,448	3,894,760	3,123,072	3,222,713	2,726,686	2,807,956	2,896,851	3,156,212	2,209,466
China	3,032,915	2,846,280	2,548,556	2,464,848	2,123,500	1,550,349	1,836,308	1,523,074	1,297,157	907,275
British India	71,627	188,208	212,696	297,445	451,210	293,889	250,525	306,310	328,096	511,247
All other countries	5,567,067	2,008,991	635,398	4,477,455	4,440,349	5,857,798	3,457,956	4,148,470	5,572,486	3,363,219
Total	\$75,430,495	\$87,069,809	\$100,153,179	\$90,913,641	\$79,271,008	\$67,159,329	\$66,197,850	\$69,294,624	\$69,263,587	\$46,219,224

¹ Included in "All other Europe."

United States Imports of Specified Cloths¹

MONTH	Lawns, Organic, Nainsoots, Cambics, etc. (Square Yards)	Broadcloths and Poplins (Square Yards)	Sateens Woven with not More than 7 Harnesses (Square Yards)	Sateens Woven with 8 or More Harnesses (Square Yards)	Voiles (Square Yards)	Crepes (Square Yards)	Gingham (Square Yards)	Ratines (Square Yards)	Jacquard Woven Cloths Other than Swivels or Lappets (Square Yards)	Dotted Swiss (Square Yards)	Total	
	1929	1,368,721	1,264,395	401,090	499,126	25,026	101,611	21,508	8,256	133,265	46,468	3,869,466
January	1,343,220	1,181,212	306,242	119,036	119,036	101,129	78,210	38,800	4,338	115,633	48,104	3,269,333
February	1,819,421	1,354,281	444,827	378,715	181,257	81,705	74,531	7,531	425,002	74,361	4,812,977	
March	1,918,739	1,514,477	335,438	161,052	105,761	33,920	96,766	5,739	245,007	62,277	4,479,266	
April	2,588,672	1,342,664	502,730	147,790	141,808	30,949	95,865	6,050	548,985	284,985	5,690,376	
May	1,402,673	1,086,069	335,211	56,404	103,800	16,023	75,539	7,761	517,525	387,477	3,981,452	
June	1,857,370	1,270,198	135,549	135,549	88,575	34,402	7,056	7,056	429,729	274,670	52,159	4,297,729
July	1,456,094	893,260	280,238	156,329	19,356	24,817	14,375	6,879	176,289	44,983	2,991,729	
August	1,303,955	1,072,933	254,449	146,316	41,346	47,855	38,468	5,541	119,979	39,525	3,076,633	
September	1,466,846	1,612,308	394,380	281,467	112,719	69,803	45,655	7,557	292,929	55,365	4,339,027	
October	1,798,472	1,273,917	346,167	267,322	54,760	30,919	51,036	6,432	502,435	38,903	4,370,365	
November	1,760,934	1,149,477	227,733	167,653	71,361	76,730	25,280	18,616	142,310	43,981	3,683,975	
Total	20,085,010	14,925,360	4,367,111	2,516,859	986,898	626,944	597,307	84,756	3,494,122	1,178,591	48,862,958	
1930	1,486,729	1,211,577	185,492	123,344	17,020	11,883	19,406	23,725	179,467	25,854	3,284,497	
January	1,060,436	1,213,644	154,778	85,920	24,611	44,533	7,450	4,055	162,484	42,419	2,800,330	
February	1,071,820	1,080,296	122,992	152,221	111,068	118,508	25,704	12,626	144,851	26,557	2,866,733	
March	1,348,237	1,338,945	112,422	211,877	115,339	24,843	13,251	16,113	61,316	3,637,120		
April	1,366,847	1,328,235	99,497	205,889	134,313	22,548	10,722	256,977	51,594	3,744,815		
May	1,032,095	572,998	87,223	103,654	39,633	11,844	7,943	6,349	80,533	57,275	1,999,447	
June	784,259	448,044	85,646	131,719	2,817	33,329	500	2,337	166,288	43,587	1,098,526	
July	488,046	323,519	107,186	83,837	93,152	59,532	6,761	6,060	140,667	3,566	1,312,326	
August	585,421	425,682	127,534	126,637	25,978	23,339	17,373	4,244	116,897	2,085	1,455,193	
September	608,624	412,597	92,437	102,333	47,499	15,473	3,189	1,275	151,351	47,436	1,482,274	
October	442,154	344,227	67,389	149,086	15,898	75,100	9,363	15,551	75,308	41,560	1,235,646	
November	522,382	432,230	63,710	61,857	60,928	24,275	10,245	24,395	97,901	68,570	1,366,493	
Total	10,997,053	9,331,994	1,306,376	1,538,374	688,256	532,876	154,925	124,790	1,736,837	471,919	26,883,400	

¹ These statistics do not include all types of cloths imported, and are collected at only the more important ports of the United States. The figures, however, amount to practically 90 per cent of the cloth imports for the period covered.

Total United States Imports for Consumption of Countable Cotton Cloths during the Years
1928, 1929 and 1930

Bureau of Foreign and Domestic Commerce

AVERAGE YEAR NUMBER	1928			1929			1930		
	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars
1- 10	1,314,522	582,633	518,097	2,161,538	627,452	430,052	962,312	484,173	320,187
11- 20	4,271,153	1,314,684	1,740,787	4,816,540	1,577,621	2,084,845	4,574,319	1,551,114	1,745,895
21- 30	6,101,718	1,549,046	1,432,928	6,052,829	1,774,642	1,494,264	5,250,385	1,462,187	1,189,739
31- 40	3,893,178	936,121	1,118,205	4,284,629	1,007,822	1,252,446	2,718,725	659,564	801,146
41- 50	3,403,528	767,832	1,102,079	2,880,321	640,897	933,807	1,637,681	367,425	564,278
51- 60	5,874,785	1,136,788	1,385,421	4,974,143	964,246	1,277,759	3,449,763	602,358	824,944
61- 70	5,191,213	876,592	1,262,574	4,127,699	730,888	1,111,324	2,763,202	489,648	769,094
71- 80	11,167,991	1,547,699	2,851,285	11,019,364	1,470,016	2,599,916	9,516,247	1,150,133	1,899,840
81- 90	5,563,207	821,396	1,455,423	5,317,628	972,341	1,551,487	3,358,337	536,840	889,130
91-100	7,910,203	790,428	1,532,255	7,287,650	808,418	1,574,019	4,895,383	555,802	1,054,945
101-110	3,173,690	313,678	639,466	2,625,600	241,486	496,288	2,038,377	181,721	353,966
111-120	331,150	29,287	69,719	227,394	20,140	48,722	480,537	33,900	70,041
121-130	593,233	55,308	155,089	153,498	15,866	44,690	155,850	12,371	31,317
131-140	60,885	4,412	12,685	8,654	852	2,027	13,391	924	3,252
141-150	18,439	2,005	5,922	7,327	653	2,384	8,281	1,545	2,337
151-160	14,780	1,371	4,608	22,733	1,719	4,559	31,915	1,889	5,335
161-170	5,162	340	948	10,364	714	2,101	3,176	192	586
171-180	2,179	151	381	470	32	164	7,524	367	2,141
181-190	—	—	—	—	—	—	—	—	—
191-200	—	2,450	450	2,493	1,118	203	7,026	579	1,648
Above 200	—	1,855	468	442	—	—	582	20	116
Total	58,895,411	10,730,689	15,363,807	56,609,699	10,856,008	14,931,700	41,872,013	8,092,752	10,529,937

United States Imports for Consumption of Countable Cotton Cloths during the Years 1929 and 1930

Bureau of Foreign and Domestic Commerce

Not Woven-figured

STATISTICAL

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AVERAGE YARN NUMBER	UNBLEACHED						BLEACHED					
	1929			1930			1929			1930		
	Square Yards	Pounds	Dollars									
1 to 10	7,111	5,495	3,585	1,333	403	.562	41,446	53,900	41,409	37,982	46,505	39,109
11 to 20	206,303	105,542	110,333	127,206	89,414	83,761	229,013	61,662	89,421	200,471	52,097	69,873
21 to 30	1,732,277	446,678	296,815	1,404,982	403,665	242,342	189,158	56,423	47,116	132,214	36,471	34,317
31 to 40	597,726	152,803	143,815	555,066	142,867	130,963	688,832	156,183	155,784	204,456	46,442	51,403
41 to 50	622,676	139,313	120,089	365,337	88,928	82,355	90,945	21,113	23,318	30,172	6,640	8,955
51 to 60	2,557,848	429,073	375,768	1,904,277	308,131	267,018	112,449	19,002	29,828	129,023	21,067	25,626
61 to 70	2,928,440	527,725	535,227	1,974,629	330,223	372,728	73,754	12,513	34,523	108,054	18,592	38,515
71 to 80	4,297,628	756,385	990,112	3,911,913	62,841	788,341	4,129,101	358,179	721,126	3,982,672	318,721	611,721
81 to 90	3,542,202	744,606	977,726	1,765,106	347,859	439,234	827,267	89,607	175,731	87,900	179,111	179,111
91 to 100	2,038,601	245,369	373,038	1,126,349	140,503	206,018	3,653,119	411,192	825,303	2,744,163	311,025	606,775
101 to 110	582,974	106,537	200,088	378,893	68,047	122,471	1,048,161	67,992	138,511	813,745	54,844	104,178
111 to 120	14,301	1,487	3,300	27,244	3,558	6,796	159,662	13,073	29,825	359,367	22,847	45,505
121 to 130	34,616	3,337	7,598	55,370	4,614	9,635	5,799	401	1,361	40,175	2,702	6,320
131 to 140	—	—	6,782	398	991	5,164	370	893	6,051	450	1,826	—
141 to 150	—	—	2,411	142	427	6,072	479	1,845	3,215	187	793	—
151 to 160	741	41	126	9,792	521	1,288	20,534	1,278	3,936	19,048	1,085	2,955
161 to 170	—	—	—	1,009	49	166	10,364	714	2,101	1,677	112	327
171 to 180	—	—	—	—	—	—	470	32	164	5,341	283	1,644
181 to 190	—	—	—	—	—	—	—	—	—	—	—	—
191 to 200	—	—	—	—	—	—	—	97	334	2,460	122	696
Above 200	—	—	—	—	—	—	—	—	582	582	20	116
Total	19,163,144	3,664,394	4,187,620	13,313,699	2,551,163	2,755,098	11,292,218	1,324,210	2,322,529	9,699,243	1,029,012	1,829,766

United States Imports for Consumption of Countable Cotton Cloths during the Years 1929 and 1930—(Continued)

Bureau of Foreign and Domestic Commerce

PRINTED, DYED, COLORED OR WOVEN-FIGURED
INCLUDING VAT-DYEDWoven with Eight or More Harnesses, or with Jacquard,
LAPPETS, or SWIVEL ATTACHMENTSAVERAGE
YARN NUMBER

1929

1930

1930

AVERAGE YARN NUMBER	1929			1930			1929			1930		
	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars
1 to 10	1,841,602	439,269	320,971	682,720	329,906	216,800	269,429	128,016	62,861	218,335	98,384	53,210
11 to 20	4,126,948	1,305,126	1,770,640	3,458,202	1,071,849	1,306,720	253,624	96,276	97,360	757,613	324,561	269,049
21 to 30	4,522,444	1,201,059	1,076,559	3,566,327	970,706	858,306	193,823	65,457	65,115	114,218	41,250	43,297
31 to 40	1,762,303	384,750	557,838	1,102,570	247,568	372,269	1,203,914	292,063	371,414	798,069	205,088	221,872
41 to 50	1,008,340	207,156	410,698	752,246	156,357	293,907	1,146,330	269,391	391,751	478,129	112,675	172,666
51 to 60	720,414	150,344	244,236	274,282	92,852	180,957	1,564,094	361,759	588,901	967,722	178,580	341,550
61 to 70	512,008	94,918	214,335	381,758	58,130	134,728	582,682	91,205	265,006	584,011	80,651	217,446
71 to 80	1,417,355	164,214	375,917	819,157	98,996	209,857	1,143,720	186,546	499,868	744,901	105,463	269,873
81 to 90	348,127	51,629	132,055	289,473	36,632	92,563	611,213	84,196	259,086	421,961	63,937	176,158
91 to 100	1,397,527	118,713	289,701	900,325	81,312	186,432	193,213	32,357	83,803	120,525	54,200	21,630
101 to 110	983,348	64,816	150,552	836,684	57,376	123,797	10,847	2,100	7,037	8,855	1,237	3,411
111 to 120	45,294	4,688	12,512	91,954	7,198	16,296	6,589	748	2,585	1,972	297	1,444
121 to 130	111,977	11,965	35,034	59,278	4,897	14,509	1,106	163	697	1,027	158	833
131 to 140	3,363	466	1,057	344	56	323	127	16	77	214	20	112
141 to 150	1,201	168	488	481	161	140	54	6	51	2,174	1,055	977
151 to 160	1,266	388	465	3,075	283	1,092	182	12	32	—	—	—
161 to 170	—	—	490	31	93	—	—	—	—	—	—	—
171 to 180	—	—	2,183	84	497	—	—	—	—	—	—	—
181 to 190	—	—	—	—	—	—	—	—	—	—	—	—
191 to 200	220	106	512	4,566	457	952	—	—	—	—	—	—
Above 200	—	—	—	—	—	—	—	—	—	—	—	—
Total	18,803,737	4,209,775	5,623,616	13,336,069	3,215,051	4,016,541	7,160,477	1,610,311	2,695,657	5,219,426	1,234,986	1,826,207

United States Imports for Consumption of Countable Cotton Cloths
during the Years 1929 and 1930—(Concluded)

Bureau of Foreign and Domestic Commerce

AVERAGE YARN NUMBER	WOVEN WITH DROP BOXES ¹					
	1929			1930		
	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars
1 to 10	1,950	772	1,226	21,942	8,975	10,476
11 to 20	20,652	9,015	17,091	30,857	13,193	16,442
21 to 30	15,127	5,025	8,859	32,644	10,095	11,474
31 to 40	31,854	12,023	23,595	58,564	17,599	24,635
41 to 50	12,230	3,924	7,948	11,797	2,825	6,395
51 to 60	19,638	4,068	8,980	8,505	1,728	3,793
61 to 70	31,415	4,527	12,033	13,750	2,052	5,677
71 to 80	31,560	4,689	12,893	56,604	5,112	20,049
81 to 90	18,819	2,303	6,879	4,722	512	1,764
91 to 100	5,060	787	2,174	4,021	432	1,511
101 to 110	270	41	100	200	17	109
111 to 120	1,548	144	500	—	—	—
121 to 130	—	—	—	—	—	—
131 to 140	—	—	—	—	—	—
141 to 150	—	—	—	—	—	—
151 to 160	—	—	—	—	—	—
161 to 170	—	—	—	—	—	—
171 to 180	—	—	—	—	—	—
181 to 190	—	—	—	—	—	—
191 to 200	—	—	—	—	—	—
Above 200	—	—	—	—	—	—
Total	190,123	47,318	102,278	243,606	62,540	102,325

¹ Includes cloth woven with circular boxes after June 18, 1930.

United States Exports of Cotton Manufactures, by Classes of Goods, in Terms of Quantity

[Figures are for calendar years]

Source: United States Department of Commerce

This table embraces only those classes of goods which can be expressed in units of quantity. It does not include, necessarily, other classes which cannot be so expressed.

	1921	1922 ¹	1923 ¹	1924 ¹	1925 ¹	1926 ¹	1927 ¹	1928 ¹	1929 ¹	1930 ¹
Cloths (running yards):										
Duck:										
Unbleached	5,890,284	8,277,695	6,880,282	7,180,584	9,023,964	9,166,085	11,927,295	9,904,998	10,294,888	7,100,989
Bleached	932,532	1,852,514	1,059,393	1,085,747	1,717,588	1,252,679	1,926,711	1,935,005	2,293,417	1,210,975
Colored	604,676	809,476	990,142	863,364	816,064	883,100	1,307,430	1,367,148	1,842,948	1,067,290
All other duck	—	—	—	—	—	—	—	639,518	688,618	428,763
All other cloths:										
Unbleached	218,367,315	177,172,182	103,286,881	110,921,404	129,581,133	119,607,693	125,718,833	124,293,510	137,857,835	102,692,333
Bleached	83,676,191	98,981,739	77,635,357	82,458,805	92,987,823	98,355,648	87,380,900	96,268,754	89,279,034	63,905,908
Colored	—	—	—	—	—	—	—	—	315,865,364	288,373,428
Printed	90,327,326	113,319,448	102,202,243	97,262,828	111,197,504	99,149,736	117,334,185	—	—	—
Dyed in the piece	83,913,351	101,467,669	99,557,461	98,955,175	107,344,997	100,437,189	120,243,854	—	—	—
Dyed in the yarn	67,801,267	84,911,869	72,682,000	84,087,301	90,697,978	82,441,583	94,283,169	—	—	—
Tire fabrics	—	—	—	—	—	—	2,003,078	4,978,051	6,410,495	6,325,202
Total cloths	531,512,942	587,492,532	464,293,759	477,815,408	543,316,851	513,299,781	565,020,728	546,847,456	564,447,306	416,285,047
Mill waste (pounds)										
Rags (except paper stock) (pounds)	39,002,394	58,572,181	55,986,852	65,616,568	77,048,181	66,788,365	96,521,824	63,429,437	59,129,559	44,914,391
Hosiery (dozen pairs)	6,680,907	8,089,668	15,252,057	18,705,515	19,068,117	12,589,917	15,407,476	19,198,924	21,093,634	12,841,359
Yarn (pounds)	2,508,258	4,792,604	5,159,750	4,825,563	5,534,222	4,744,584	4,337,435	3,876,517	3,777,534	2,252,449
	14,294,176	15,503,360	12,081,384	13,673,509	21,891,810	24,036,636	28,540,555	26,624,512	27,491,212	18,130,980

¹ Cloth exports are in square yards.

NOTE.—Where no figures are given for the earlier years the items were either not compiled or not separately classified in those years. If compiled, they were grouped with other items shown in the table. It should not be assumed that there were no exports of such items if no figures are given for these items separately.

United States Exports of Cotton Manufactures, by Classes of Goods, in Terms of Value

[Figures are for calendar years]

Source: United States Department of Commerce

	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
Blankets	\$990,808	\$960,214	\$970,258	\$728,941	\$817,685	\$859,752	\$925,766	\$817,121	\$885,311	\$682,333
Cloths:										
Duck:	\$2,818,206	\$3,508,982	\$3,216,638	\$3,353,931	\$4,149,830	\$3,412,879	\$3,756,491	\$3,315,532	\$3,435,350	\$2,084,384
Unbleached	613,329	475,947	494,486	325,816	616,670	452,768	610,132	558,324	743,777	336,020
Bleached	262,836	238,532	372,185	—	298,066	317,983	373,672	451,377	631,321	241,968
Colored	—	—	—	—	—	—	—	451,457	421,641	—
All other duck:	\$19,666,270	\$19,296,926	\$13,731,328	\$13,943,631	\$15,095,935	\$12,454,570	\$11,355,202	\$11,712,364	\$12,444,926	\$7,922,779
All other cloths:	11,702,905	13,871,473	12,287,691	12,075,860	13,332,171	12,370,641	9,983,581	11,097,757	10,589,933	6,351,116
Unbleached	—	—	—	—	—	—	—	49,074,992	48,485,378	32,917,353
Bleached	—	—	—	—	—	—	—	—	—	—
Colored	—	—	—	—	—	—	—	—	—	—
Printed	10,575,603	14,802,468	15,196,072	13,925,536	14,921,031	14,946,107	15,789,876	—	—	—
Dyed in the piece	15,505,740	8,111,287	9,679,792	8,082,158	20,320,460	17,647,723	19,281,783	—	—	—
Dyed in the yarn	10,640,069	14,789,205	14,353,149	16,003,459	16,257,486	13,039,538	13,825,772	2,636,751	2,690,366	568,788
Tire fabric	—	—	—	—	—	849,762	1,759,652	—	—	—
Total cloths	\$71,573,875	\$85,232,112	\$79,357,337	\$78,204,877	\$85,011,749	\$74,588,981	\$76,755,711	\$79,298,554	\$79,410,467	\$51,383,739
Laces and embroideries	—	—	—	—	—	—	—	—	—	—
Mill waste	—	—	—	—	—	—	—	—	—	—
Rags (except paper stock)	3,678,527	6,067,303	7,609,695	7,616,188	8,720,584	6,077,523	8,650,662	7,118,832	\$215,750	\$212,140
Thread, sewing, crochet, etc.	2,266,420	482,755	987,234	1,492,711	1,505,516	850,116	1,022,294	4,428,357	6,744,036	4,120,874
Wearing apparel:	2,065,328	2,034,732	2,065,520	1,772,668	1,183,357	1,439,862	1,285,558	1,183,342	1,428,357	1,428,357
Collars and cuffs	—	—	—	—	—	—	—	—	—	—
Corsets	—	—	—	—	—	—	—	—	—	—
Knit goods	1,695,555	1,924,036	1,775,581	1,902,745	683,393	570,207	524,524	424,725	311,029	180,094
Hosiery	—	—	—	—	—	—	—	—	—	—
Underwear	—	—	—	—	—	—	—	—	—	—
All other knit goods	6,815,664	6,632,672	7,423,967	11,896,201	12,181,925	14,323,824	15,602,316	15,525,447	9,585,915	—
Yarn	—	—	—	—	—	—	—	—	—	—
Total manufactures of cotton	\$117,234,542	\$138,701,617	\$139,045,354	\$132,710,741	\$148,239,365	\$128,877,008	\$133,186,101	\$134,643,559	\$135,115,440	\$88,687,680

Note. — Where no figures are given for the earlier years the items were either not compiled or not separately classified in those years. If compiled, they were grouped with other items shown in the table. It should not be assumed that there were no exports of such items if no figures are given for these items separately.

Conversely, figures for certain classes of goods (as for all other cloths, colored) are discontinued when this classification is broken up into several sub-classifications, all other cloths, colored, being subdivided into printed, dyed in the piece, and dyed in the yarn.

United States Exports of Cotton Manufactures, by Countries

[Statistics are for calendar years]

Source: United States Department of Commerce

COUNTRIES	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
Europe:										
United Kingdom	\$8,383,979	\$11,351,039	\$9,232,304	\$8,138,680	\$10,077,802	\$4,632,046	\$4,346,048	\$4,533,785	\$4,602,035	\$3,263,019
Germany	1,522,910	1,149,384	1,158,523	1,327,423	2,355,718	216,843	252,962	147,553	138,841	133,985
All other Europe	11,533,970	7,904,752	4,935,250	3,370,284	5,555,374	3,525,635	2,991,679	2,759,265	3,103,957	2,227,461
America:										
Canada	18,207,778	20,540,062	19,204,728	16,384,203	17,675,268	14,184,909	15,205,082	16,400,777	18,607,662	12,495,877
Mexico	13,703,906	6,795,751	6,701,945	7,272,995	7,337,064	6,030,076	3,942,293	4,028,072	3,476,207	2,504,018
Central America	8,900,340	9,812,808	9,882,329	11,530,092	11,518,823	9,174,796	9,783,608	8,974,904	10,438,046	6,532,700
British West Indies (including Bermuda)	3,237,720	3,383,094	2,774,123	2,291,097	3,163,808	2,700,885	2,947,752	2,191,732	2,800,875	2,530,442
Cuba	6,744,018	11,164,363	22,880,293	20,881,923	16,020,118	14,887,479	14,289,082	12,375,237	9,231,357	9,231,357
Haiti	2,412,481	3,358,270	4,030,255	3,634,637	4,910,020	2,371,706	3,449,178	3,471,538	1,839,117	2,076,249
All other North America	2,116,574	3,122,172	4,087,780	4,941,452	5,608,113	3,980,127	3,965,587	4,712,651	3,660,116	3,660,116
Brazil	567,705	1,015,537	977,277	1,964,948	2,451,702	1,089,935	1,407,727	1,759,881	758,000	418,107
Chile	2,786,929	4,775,339	5,337,587	4,473,085	4,820,039	3,807,543	3,168,135	3,719,640	3,905,852	2,204,430
Colombia	2,190,974	5,765,011	4,734,691	5,996,986	8,004,596	5,992,227	4,562,788	4,147,065	4,400,427	2,967,192
Peru	1,099,181	1,657,994	2,127,413	1,897,225	1,630,769	1,242,834	1,237,252	1,194,862	573,427	573,427
Venezuela	544,331	882,633	2,311,810	2,376,644	1,844,872	1,501,372	1,918,704	2,422,476	1,467,536	
All other South America	12,046,946	17,357,471	14,698,034	17,429,244	7,986,918	8,578,660	8,387,016	7,454,486	5,306,740	
Asia and Oceania:										
China	2,576,539	2,248,349	539,607	526,805	1,408,286	530,209	320,950	404,862	338,888	179,284
British India	2,839,733	854,521	826,355	1,177,331	1,850,773	1,966,064	2,437,814	2,607,317	3,538,354	1,476,736
British Australasia	3,350,761	5,144,807	3,385,927	2,600,055	4,036,508	3,881,470	3,405,483	3,799,840	4,272,880	1,945,719
Aden	1,334,537	1,433,096	742,835	254,277	417,164	380,158	268,410	269,716	281,191	62,406
Philippine Islands	8,022,235	14,263,146	13,550,098	11,557,251	13,245,865	15,279,067	12,650,086	13,910,901	12,350,754	7,244,632
All other Asia and Oceania	2,668,763	1,28,391	1,878,240	1,214,900	1,542,624	1,241,534	1,617,717	2,344,613	3,272,016	1,933,802
Africa	1,740,882	3,093,427	2,995,627	3,747,592	4,517,825	4,682,599	4,801,658	4,865,373	4,853,408	3,226,741
Total	\$117,234,542	\$138,701,617	\$138,045,354	\$132,710,741	\$148,239,365	\$111,997,547	\$109,313,169	\$110,418,515	\$111,218,155	\$73,676,976

British Exports of Cotton Cloth and Cotton Yarn

Source: British Board of Trade

YEAR	Cloth (Yards)	Yarn (Pounds)
1905	6,196,783,900	205,100,500
1906	6,260,771,400	207,378,700
1907	6,297,707,900	241,076,700
1908	5,530,808,500	214,762,200
1909	5,722,158,100	215,223,400
1910	6,017,625,200	191,629,100
1911	6,653,672,300	223,834,400
1912	6,912,919,700	243,850,400
1913	7,075,252,000	210,099,000
1914	5,735,744,500	178,496,800
1915	4,748,452,900	188,169,200
1916	5,254,222,700	172,170,600
1917	4,978,237,900	133,151,300
1918	3,699,252,300	101,711,400
1919	3,523,660,000	162,816,600
1920	4,435,405,000	147,432,400
1921	2,902,288,900	145,894,900
1922	4,183,729,100	201,953,000
1923	4,140,231,900	145,017,400
1924	4,443,959,500	163,056,400
1925	4,435,617,800	189,531,200
1926	3,834,447,700	168,543,200
1927	4,117,683,000	200,502,200
1928	3,866,592,900	169,211,600
1929	3,671,686,500	166,636,500
1930	2,406,766,700	136,710,100

Comparative Prices of Foreign Cotton

[January 1 quotations at Liverpool]

Pence per pound

	1927	1928	1929	1930	1931
American, middling	6.89	11.08	10.59	9.46	5.33
Egyptian:					
FGF Sakel	13.95	17.90	19.35	14.15	7.70
FGF Upper	9.90	14.50	12.29	10.46	6.18
FGF Pilion	10.40	14.75	12.83	11.25	6.85
Indian:					
Fine Broach	6.30	9.90	9.10	7.70	4.05
Fine Oomra, No. 1	6.25	9.15	8.35	7.05	3.70
Fine Bengal	5.50	8.40	7.65	5.70	3.35
Fine Surtee	6.80	10.40	10.05	8.55	4.80
South American:					
Fair Peruvian	7.00	11.33	11.44	10.01	5.68
Fair Parahyba	7.19	11.33	10.94	9.11	5.48
Fair Sao Paulo	6.19	10.58	10.34	9.01	5.38

High and Low Prices of Middling Upland Spot Cotton in New York

[In cents per pound]

Source: New York Cotton Exchange

The years as given are the official cotton seasons. Through 1913-14 the seasons were from September 1 to August 31. Starting with 1914-15 they have been from August 1 to July 31.

SEASON	High	Low	SEASON	High	Low
1902-03 . .	13.50	8.30	1916-17 . .	27.65	13.35
1903-04 . .	17.25	9.50	1917-18 . .	36.00	21.20
1904-05 . .	11.65	6.85	1918-19 . .	38.20	25.00
1905-06 . .	12.60	9.85	1919-20 . .	43.75	28.85
1906-07 . .	13.50	9.60	1920-21 . .	40.00	10.85
1907-08 . .	13.55	9.90	1921-22 . .	23.75	12.80
1908-09 . .	13.15	9.00	1922-23 . .	31.30	20.35
1909-10 . .	16.45	12.40	1923-24 . .	37.65	23.50
1910-11 . .	19.75	12.30	1924-25 . .	31.50	23.41
1911-12 . .	13.40	9.20	1925-26 . .	24.75	17.85
1912-13 . .	13.40	10.75	1926-27 . .	19.20	12.15
1913-14 . .	14.50	11.90	1927-28 . .	23.90	17.00
1914-15 . .	10.60	7.25	1928-29 . .	21.65	17.65
1915-16 . .	13.45	9.20	1929-30 . .	19.55	12.45

Monthly High and Low Prices of Middling Upland Spot Cotton at New York

Source: New York Cotton Exchange

	1926-27		1927-28		1928-29		1929-30	
	High	Low	High	Low	High	Low	High	Low
August .	19.20	17.70	23.25	17.00	20.40	18.55	19.35	17.95
September .	18.95	14.70	23.90	20.55	19.60	17.65	19.55	18.40
October .	14.30	12.45	21.80	19.90	20.20	19.05	19.15	18.00
November .	13.10	12.60	21.30	19.30	21.00	19.00	18.10	17.00
December .	13.10	12.15	20.15	18.60	20.65	20.00	17.55	17.00
January .	13.70	12.80	19.85	17.95	20.55	19.95	17.55	16.25
February .	14.50	13.65	19.05	17.45	20.80	19.85	16.50	14.90
March .	14.85	14.00	20.00	18.70	21.65	20.70	16.45	14.00
April .	15.35	14.30	22.15	19.80	20.75	19.40	16.80	15.85
May .	17.05	15.45	22.30	20.95	19.90	18.50	16.70	16.20
June .	17.10	16.35	23.10	20.65	19.05	18.30	16.15	13.25
July .	18.95	17.05	22.85	20.45	19.45	18.00	13.65	12.45
Season	19.20	12.15	23.90	17.00	21.65	17.65	19.55	12.45

Monthly High and Low Prices of Future Contracts at New York

[Cents per Pound]

Source: New York Cotton Exchange

1928-29	October 1928 Contract		December 1928 Contract		January 1929 Contract		March 1929 Contract		May 1929 Contract		July 1929 Contract		October 1929 Contract		December 1929 Contract		January 1930 Contract		March 1930 Contract		May 1930 Contract			
	High		Low		High		Low		High		Low		High		Low		High		Low		High			
August 1928	a20.75	18.15	a20.33	18.11	a20.05	18.05	a20.07	18.12	a20.01	18.10	a19.97	18.02	a19.93	17.22	a19.03	17.12	a20.02	18.08	a19.66	18.90	a19.56	18.87	a19.65	18.89
September 1928	a19.36	17.31	a19.35	17.28	a19.32	17.25	a19.20	17.20	a19.75	18.40	a19.60	18.16	a19.57	18.44	a20.07	18.44	a19.66	18.90	a19.56	18.87	a19.66	18.87	a19.65	18.89
October 1928	a20.10	18.35	a19.92	18.77	a19.92	18.44	a19.86	18.40	a20.83	18.71	a20.79	18.58	a20.42	18.79	a20.07	19.25	a20.07	19.25	a20.02	19.02	a20.05	19.06	a20.06	19.06
November 1928	a20.94	18.77	a19.93	18.51	a19.92	18.44	a19.86	18.40	a19.75	18.26	a19.60	18.16	a19.57	18.44	a19.66	18.90	a19.56	18.87	a19.66	18.87	a19.65	18.89
December 1928	a20.55	19.64	a20.48	19.55	a20.50	19.57	a20.42	19.55	a20.12	19.31	a20.44	19.62	a20.07	19.25	a19.96	19.24	a19.99	18.97	a20.02	19.02	a20.06	19.06
January 1929	a20.34	19.53	a20.41	19.60	a20.63	19.51	a20.62	19.58	a20.25	19.25	a20.17	18.25	a20.75	19.00	a20.17	18.25	a20.20	18.55	a20.25	18.70	a20.20	18.57
February	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
March	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
April	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
May	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
June	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
July	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

1929-30	October 1929 Contract		December 1929 Contract		January 1930 Contract		March 1930 Contract		May 1930 Contract		July 1930 Contract		October 1930 Contract		December 1930 Contract		January 1931 Contract		March 1931 Contract		May 1931 Contract			
	High		Low		High		Low		High		Low		High		Low		High		Low		High			
August 1929	b19.30	17.88	b19.56	18.21	b19.61	18.27	b19.80	18.46	b19.86	18.67	b19.80	18.60	b19.87	18.57	b20.12	18.80	b20.18	18.94	b20.07	18.70	b18.06	16.88	b15.99	15.77
September 1929	b19.50	18.20	b19.85	18.52	b19.87	18.52	b20.12	18.80	b20.18	18.91	b20.62	18.90	b19.60	18.51	b19.49	18.60	b18.73	17.52	b18.56	17.56	b16.96	16.88	b15.82	14.45
October 1929	b18.97	17.60	b19.10	17.80	b19.16	17.90	b19.39	18.21	b19.60	18.51	b18.62	17.65	b18.73	17.52	b18.73	17.52	b18.73	17.52	b18.73	17.52	b16.03	14.80	b16.20	14.99
November 1929	b17.98	16.76	b18.09	16.76	b18.37	17.05	b18.62	17.76	b18.62	17.76	b18.62	17.76	b18.62	17.76	b18.20	17.49	b17.96	16.52	b17.96	16.52	b17.97	16.52
December 1929	b17.43	16.72	b17.56	16.70	b17.85	17.03	b17.85	17.03	b17.58	16.27	b17.58	16.27	b17.58	16.27	b17.58	16.27	b17.58	16.27	b16.30	14.80	b15.55	14.30
January 1930	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
February	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
March	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
April	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
May	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
June	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
July	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

(a) Delivery in the Port of New York, N. Y. (Southern Delivery not effective).
 (b) Delivery in the Ports of New York, N. Y., Norfolk, Va., Charleston, S. C., New Orleans, La., Houston, Texas, and Galveston, Texas, with a provision that the deliverer shall deduct 35 points from the invoice price when delivery is made elsewhere than in the Port of New York, N. Y.
 (c) Delivery in the Ports of New York, N. Y., Norfolk, Va., Charleston, S. C., New Orleans, La., Houston, Texas, Savannah, Ga., and Mobile, Ala., without a 35 point differential.

Staple Cotton Price Trend in 1930

Source: Daily News Record.

	AMERICAN STAPLES ¹			EGYPTIANS ¹			Arizona Pima ² No. 2	Peru- vian Mod- erate Rough ¹	Tanguis ³ Strict Middling	New York Middling Spots
				Uppers Medium	Saks ¹ — Medium	Saks ¹ — High Grade				
	1½-Inch	1¾-Inch	1¼-Inch							
January 2	20½-21½	21½-22½	25½	22-22½	31-32	33	36	21½	23	17.45
January 14	21½-22	22½-23	26	21½-22	30½-31	32	35	21	23	17.45
January 27	21-21½	22½-23	26½	22-22½	30½-31½	32½	35-36	21	23	17.20
February 1	20½-21	21½-22½	25½	21½-22	30½-31½	32	35-36	21	23	16.50
February 13	19½-20½	21-21½	25	20½-21½	29-30	31½	35-36	20½	22½	15.80
February 25	19-19½	20½-21½	25	21-22	29-30	31½	35-36	21	23	15.10
March 3	19-19½	20½-21½	25	21-22	29-30	32	35-36	20	23	15.00
March 14	18½-19	20½-21	24½	21-21½	27½-28½	31½	35-36	20	23	14.70
March 26	19½-20	21½-22	25	21-21½	27-27½	31	35-36	21	23	16.00
April 3	19½-20½	21½-22½	25	21½-22	27½-29	31½	35-36	21	23	16.80
April 15	19½-20	21½-22½	25½	21-21½	27½-28½	31½	35-36	23	23	16.00
April 26	18½-19½	20½-21½	25½	23-23½	29½-30½	32½	35-36	20½	22½	16.20
May 2	19-19½	21-21½	25½	21½-22½	31-31½	32½	35-36	21	23	16.60
May 14	19-19½	20½-21½	25	20½-21½	29½-31	32½	34-35	21	23	16.35
May 26	18½-19	20-21	24	22-23	29½-31	32	34-35	22½	24	16.20
June 7	18½-18½	19½-20½	24½	21½-23	29½	32	34-35	21	22	15.70
June 13	18-18½	19½-20	24	21½-22½	29½-30½	32	34-35	22½	24	14.50
June 19	16-16½	18½-19½	22½	22½-23	30½-31½	32	34-35	20	24½	13.95
July 2	15½-16½	17½-18½	25	22½-23½	33-34	35	34	20	24	13.60
July 15	15½-16½	17½-18	21½	21½-22½	33-34	35	33	20	24	13.20
July 25	15-16	17-18½	22½	22½-23½	32½-33½	35	33	19	23½	12.75
August 2	15½-16	17½-18	21	22½-23½	31½-33	34½	33	19	23½	12.85
August 19	14½-15½	16-16½	20½	21½-22	31-32½	33½	32	18½	22	11.25
August 30	14½-15	16-17	19½	21½-22½	31½-33	34	32	18	21½	.....
September 3	14½-15	16-17	19½	21½-22½	31-33	33½	32	18	21½	11.40
September 16	14½-14½	16-17	19½	21½-22½	31-32½	33½	27½	18	21½	10.95
September 29	14-14½	15½-16	18½	21½-22½	25-27	29½	27½	18	21½	10.25
October 3	14½-14½	15½-16½	19½	22-23	27-28½	30½	27½	18	21½	10.50
October 20	13½-14	15½-15½	18½	21½-22½	26-27½	28½	25	18	21½	10.45
October 29	13½-14	15½-16	19½	20½-21½	25-26½	27½	25	18	21½	11.45
November 6	13½-13½	15-15½	19½	22-22½	25½-26½	27½	25	18	21½	10.85
November 17	13½-14½	15½-16	19½	21½-22½	23½-25	26	25	18	21½	11.10
November 29	13½-14	15-15½	19½	22½-22	23½-25	26	25	17½	21½	10.55
December 4	13½-14	14½-15½	19½	22-23	23-24½	25½	25	17½	21½	10.45
December 15	13-13½	15-15½	18½	21½-22½	23-24½	25½	23	16	21½	9.45
December 27	13-13½	14½-15½	19	21-22	23-24	25	23	16	21½	9.80

¹ New Bedford basis.² New England basis.³ New York basis.

Average Monthly Price of Cotton

Source: New York Cotton Exchange

Season	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Av.
1895-96	7.55	8.42	9.05	8.68	8.37	8.28	8.05	7.80	7.92	8.21	7.62	7.27	8.10
1896-97	8.03	8.56	8.04	7.89	7.38	7.38	7.19	7.29	7.40	7.71	7.54	7.94	7.71
1897-98	8.00	7.25	6.31	5.86	5.87	5.94	6.18	6.16	6.27	6.41	6.49	6.18	6.41
1898-99	5.93	5.68	5.41	5.40	5.79	6.10	6.49	6.42	6.22	6.21	6.25	6.14	6.00
1899-1900	6.27	6.45	7.27	7.59	7.66	7.77	8.60	8.60	9.73	10.06	9.73	8.33	8.33
1900-01	6.87	10.29	10.19	9.82	10.16	10.04	9.89	8.68	8.33	8.17	8.42	8.53	9.36
1901-02	8.15	8.39	8.39	7.95	8.38	8.28	8.53	8.99	9.28	9.56	9.34	9.33	8.71
1902-03	8.96	8.97	8.80	8.49	8.62	8.94	9.42	10.09	10.36	11.36	12.36	12.60	9.91
1903-04	12.80	12.00	10.25	10.90	12.74	14.27	14.85	15.61	14.49	13.47	11.80	10.81	12.83
1904-05	10.75	11.07	10.36	10.04	12.92	7.18	7.76	8.00	7.94	8.21	8.83	10.77	9.06
1905-06	10.85	10.88	10.31	11.39	12.06	11.90	11.30	11.34	11.75	11.89	11.11	11.11	11.31
1906-07	10.41	9.78	11.00	10.63	10.77	10.83	11.01	11.16	11.16	11.95	13.13	11.22	11.22
1907-08	13.31	12.61	11.56	11.02	11.88	11.75	11.56	11.04	10.18	13.58	11.64	11.12	11.76
1908-09	10.34	9.38	9.25	9.41	9.59	9.80	9.76	10.35	11.23	11.46	12.45	10.18	10.18
1909-10	12.73	12.97	13.81	14.80	15.13	15.15	14.76	15.02	15.12	15.46	15.46	14.63	14.63
1910-11	16.06	14.60	14.39	14.76	15.08	14.88	14.31	14.51	14.82	15.77	15.63	14.17	14.17
1911-12	12.56	11.35	9.67	9.44	9.37	9.55	10.38	10.60	10.25	10.33	11.62	12.58	10.64
1912-13	12.07	11.75	11.05	12.27	13.02	13.08	12.88	12.62	12.33	11.94	12.23	12.28	12.29
1913-14	12.14	13.41	14.03	13.75	13.04	12.71	12.86	13.25	13.26	13.39	13.45	13.25	13.21
1914-15	11.77	11.00	11.00	9.31	7.51	8.21	8.53	8.08	10.03	9.89	9.66	9.31	9.60
1915-16	9.40	10.53	12.29	11.87	12.33	12.34	11.75	11.80	12.07	12.96	12.97	13.04	11.94
1916-17	14.45	15.82	17.99	19.66	18.47	17.61	16.04	18.42	20.41	20.65	20.50	26.56	26.23
1917-18	25.76	23.17	28.12	29.46	30.72	32.56	31.63	33.56	32.09	27.10	30.37	31.37	29.65
1918-19	33.92	31.97	32.65	29.61	30.30	29.88	26.29	27.54	28.81	30.65	32.76	35.32	31.05
1919-20	32.48	30.30	34.26	39.20	39.18	38.28	38.61	41.15	42.46	41.14	39.46	40.92	38.20
1920-21	36.50	31.18	23.04	17.81	15.83	16.17	13.61	11.53	12.13	12.83	12.17	12.33	17.92
1921-22	13.45	19.15	19.99	18.41	18.32	18.07	17.92	18.38	18.03	20.70	22.08	22.29	18.86
1922-23	21.78	21.44	22.92	25.61	25.74	27.54	28.38	30.35	28.78	27.16	28.58	26.49	26.23
1923-24	24.88	28.43	26.84	34.12	36.25	34.36	32.61	28.57	30.50	31.47	29.90	31.07	31.07
1924-25	29.04	23.55	24.53	24.12	23.81	24.08	24.75	25.72	24.60	23.53	24.10	24.53	24.69
1925-26	24.00	23.71	21.83	21.08	20.82	20.56	19.30	19.22	18.92	18.49	18.67	20.54	20.54
1926-27	18.47	17.53	13.34	12.85	12.70	13.35	14.13	14.29	14.67	16.06	17.85	15.09	15.09
1927-28	22.02	21.25	20.34	19.51	19.13	18.27	19.33	20.59	21.60	21.61	21.76	20.43	20.43
1928-29	19.76	18.79	19.62	19.70	20.50	20.27	20.12	19.62	18.68	18.64	19.74	19.74	19.74
1929-30	19.43	18.85	18.46	17.53	17.27	17.22	15.62	15.18	16.42	16.43	14.47	13.11	16.60

1895 to 1929 monthly figure obtained by averaging Wednesday and Saturday prices, 1929-30 Actual Average.

Premiums on Staple Cotton in the New Orleans and Memphis Markets

(United States Department of Agriculture)

SEASON AND MONTH	NEW ORLEANS				MEMPHIS				Average Spot Price (Cents)	
	PREMIUMS SHOWN IN HUNDREDTHS OF CENT				PREMIUMS SHOWN IN HUNDREDTHS OF CENT					
	Staple 1 1/16 Inches	Staple 1 1/8 Inches	Staple 1 3/16 Inches	Staple 1 1/4 Inches	Staple 1 1/16 Inches	Staple 1 1/8 Inches	Staple 1 3/16 Inches	Staple 1 1/4 Inches		
1926-1927										
August .	200	350	550	900	144	275	550	825	18.57	
September .	200	350	550	900	156	331	531	800	17.01	
October .	105	235	410	670	110	440	440	820	13.14	
November .	138	238	450	800	131	406	406	820	12.86	
December .	150	250	450	840	120	400	400	900	12.68	
January .	150	250	450	875	119	450	450	800	13.42	
February .	150	250	450	900	100	225	375	700	14.11	
March .	150	250	450	900	163	213	400	700	14.33	
April .	150	250	450	900	150	200	400	950	14.77	
May .	200	300	500	900	200	325	550	950	16.04	
June .	200	300	513	900	200	325	600	1,000	16.85	
July .	200	300	590	900	200	350	600	1,000	17.99	
Average	166	277	484	730	149	328	475	772	15.15	
1927-1928										
August .	163	244	525	788	175	325	575	950	20.04	
September .	169	263	513	788	150	363	588	975	21.93	
October .	250	350	550	850	160	330	490	620	20.96	
November .	238	338	513	800	150	350	438	600	20.22	
December .	200	300	400	650	150	300	400	513	19.58	
January .	200	300	400	650	165	285	410	590	19.12	
February .	200	300	400	650	150	250	350	600	18.36	
March .	200	300	400	650	110	240	340	570	19.37	
April .	175	250	350	550	106	200	300	450	20.62	
May .	175	250	350	550	125	200	288	438	21.58	
June .	170	245	340	535	125	200	300	450	21.54	
July .	150	225	300	475	125	200	300	450	21.71	
Average	191	280	420	661	141	270	398	601	20.42	

Premiums on Staple Cotton in the New Orleans and Memphis Markets—(Concluded)

(United States Department of Agriculture)

SEASON AND MONTH	NEW ORLEANS				MEMPHIS				Average Spot Price (Cents)	
	PREMIUMS SHOWN IN HUNDREDTHS OF CENT				PREMIUMS SHOWN IN HUNDREDTHS OF CENT					
	Staple 1 $\frac{1}{16}$ Inches	Staple 1 $\frac{1}{8}$ Inches	Staple 1 $\frac{3}{16}$ Inches	Staple 1 $\frac{1}{4}$ Inches	Staple 1 $\frac{1}{16}$ Inches	Staple 1 $\frac{1}{8}$ Inches	Staple 1 $\frac{3}{16}$ Inches	Staple 1 $\frac{1}{4}$ Inches		
1928-1929										
August .	150	225	300	475	125	200	300	450	19.34	
September .	150	206	300	494	138	200	288	475	18.79	
October .	150	200	300	488	169	200	269	575	19.62	
November .	150	200	300	450	165	190	260	600	19.70	
December .	150	200	300	450	144	181	238	550	20.50	
January .	150	200	300	450	162	219	300	575	20.27	
February .	150	200	300	450	194	265	350	660	20.12	
March .	150	200	300	450	200	275	350	750	21.15	
April .	150	200	300	450	219	306	419	775	20.38	
May .	165	230	345	540	245	320	455	880	19.62	
June .	200	275	400	675	256	325	431	838	18.68	
July .	225	300	425	750	275	350	425	825	18.64	
Average	162	220	323	510	191	253	340	663	19.74	
1929-1930										
August .	225	300	425	680	235	305	385	725	18.64	
September .	175	225	325	600	219	250	338	606	18.85	
October .	175	225	325	575	200	225	300	575	18.46	
November .	175	225	325	580	200	235	330	590	17.53	
December .	175	225	350	600	194	244	369	644	17.27	
January .	175	225	350	600	170	220	340	655	17.22	
February .	175	225	350	600	175	238	342	675	15.62	
March .	175	225	350	600	181	250	356	675	15.18	
April .	175	225	350	600	150	200	325	650	16.42	
May .	175	225	350	600	165	230	355	655	16.43	
June .	175	225	350	600	169	206	356	656	14.47	
July .	175	225	350	600	150	175	325	763	13.11	
Average	179	231	350	603	184	232	343	656	16.60	

Relative Wholesale Prices of Cotton Yarn and Cotton Fabrics in
Comparison with Other Groups of Commodities, from 1921 to
1930 by Quarters

[Prices of 1913, represented by 100, taken as basis]

Source: United States Bureau of Labor Statistics

	Cotton Yarn 10-1 Carded	Pepperell Brown Sheeting 4-4	Lonsdale Bleached Muslin 4-4	Farm Prod- ucts	Foods	Fuel and Light- ing	Metals and Metal Prod- ucts	Build- ing Mat- erials	Chem- icals and Drugs	House Furnish- ing Goods	All Com- modi- ties
Average of 1913	100	100	100	100	100	100	100	100	100	100	100
January, 1921	130.1	165.6	190.8	143	162	247	153	192	153	217	170
April, 1921	107.9	136.4	188.0	117	144	205	138	167	135	216	148
July, 1921	108.9	136.4	169.8	119	141	186	124	160	129	180	141
October, 1921	173.2	184.2	200.1	124	140	189	116	159	131	180	142
January, 1922	147.3	160.3	181.9	122	131	195	112	157	124	178	138
April, 1922	141.7	153.5	169.8	129	137	194	113	156	124	175	143
July, 1922	170.7	174.8	182.3	135	142	254	121	170	121	173	155
October, 1922	176.5	183.9	194.1	138	140	226	135	183	124	176	154
January, 1923	196.7	199.3	202.7	143	141	218	133	188	131	184	156
April, 1923	202.4	211.5	212.2	141	144	200	154	204	136	187	159
July, 1923	182.5	197.8	194.1	135	141	183	145	190	128	187	151
October, 1923	208.1	204.6	200.1	144	148	172	142	182	129	183	153
January, 1924	233.4	225.1	218.3	144	143	169	142	181	132	176	151
April, 1924	202.3	211.5	206.2	139	137	179	139	182	128	175	148
July, 1924	197.8	211.5	201.7	134	136	175	132	173	127	172	147
October, 1924	187.7	204.6	206.2	143	148	168	128	171	131	171	152
January, 1925	183.6	201.2	206.2	163	160	168	136	179	135	173	160
April, 1925	173.3	201.2	209.3	153	154	169	129	174	134	171	156
July, 1925	174.3	177.4	180.3	162	157	172	126	170	133	169	160
October, 1925	179.4	180.8	200.1	155	158	172	128	174	135	168	158
January, 1926	164.0	180.8	194.1	152	156	177	129	178	133	165	156
April, 1926	153.2	180.8	194.1	145	153	174	127	173	130	163	151
July, 1926	142.2	163.7	183.3	141	154	177	126	172	131	161	151
October, 1926	133.9	158.3	185.0	139	152	184	127	172	129	160	150
Average of 1926 ¹	100	100	100	100	100	100	100	100	100	100	100
January, 1927	80.7	87.7	91.0	97	97	98	99	98	98	98	97
April, 1927	83.2	87.7	91.0	94	95	85	98	95	98	98	94
July, 1927	94.2	96.9	91.0	98	94	84	98	94	95	98	94
October, 1927	109.0	114.2	97.5	105	101	84	97	92	97	99	97
January, 1928	98.6	107.7	92.6	106	99	81	98	91	96	99	96
April, 1928	97.9	97.9	92.6	108	100	81	98	93	96	98	97
July, 1928	105.2	102.0	92.6	107	102	83	99	94	95	97	98
October, 1928	101.3	96.6	92.6	104	102	85	101	95	96	97	98
January, 1929	105.9	94.9	92.6	106	99	83	104	97	96	97	97
April, 1929	100.2	95.6	92.6	105	98	81	106	98	95	97	97
July, 1929	98.2	94.9	91.0	108	103	82	105	97	93	97	98
October, 1929	98.7	96.9	91.0	104	101	82	104	98	94	97	96
January, 1930	88.2	96.9	91.0	101	97	80	101	96	93	97	93
April, 1930	84.0	88.7	91.0	95	95	78	99	95	91	96	91
July, 1930	71.8	81.6	83.2	83	86	75	94	99	88	96	84
October, 1930	62.7	76.5	79.6	82	89	75	90	86	86	95	83

¹ Beginning with January, 1927, prices of 1926 represented by 100 taken as basis.

Relative Prices of Cotton in Comparison with Other Basic Raw Materials, from 1921 to 1930 by Quarters

[Prices of 1913, represented by 100, taken as basis]

Source: United States Bureau of Labor Statistics

	Cotton Middling (Upland)	Wool 1/4—3/4 Grades (Grease)	Wheat No. 1 Northern	Corn Contract Grade	Cattle Good to Choice Steers	Copper Electro- lytic	Iron Bessemer, Pig	Coal, Bitu- minous
Average of 1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
January, 1921	130.6	114.0	204.7	109.1	115.7	81.9	198.2	254.5
April, 1921	94.9	110.1	160.9	92.5	102.5	79.3	157.4	220.5
July, 1921	96.6	102.6	164.7	98.2	98.8	79.7	133.3	209.1
October, 1921	154.0	98.7	151.0	75.1	104.3	80.6	128.2	186.4
January, 1922	140.0	121.6	148.8	77.4	95.8	86.1	125.8	170.5
April, 1922	141.5	151.9	178.9	94.1	98.8	80.3	131.8	163.6
July, 1922	174.6	170.9	162.8	102.8	114.0	87.2	156.3	245.0
October, 1922	178.0	174.8	129.6	110.6	120.4	87.0	205.3	290.5
January, 1923	214.7	205.2	139.8	113.7	115.0	92.5	170.8	256.4
April, 1923	226.3	212.7	146.4	126.8	106.0	107.5	191.3	222.3
July, 1923	202.3	208.8	124.1	137.1	124.5	91.7	166.1	176.8
October, 1923	234.9	197.6	134.2	161.7	122.8	80.3	157.4	176.8
January, 1924	271.4	205.2	131.7	121.3	111.3	80.1	144.5	165.5
April, 1924	233.6	201.3	129.5	126.4	126.7	84.2	143.4	154.1
July, 1924	229.1	182.3	148.4	168.7	112.4	78.5	128.2	154.1
October, 1924	191.6	220.2	164.2	176.8	111.7	82.6	127.0	154.1
January, 1925	188.0	266.0	208.3	203.3	109.5	94.0	143.8	154.1
April, 1925	191.6	218.2	168.7	173.1	117.4	84.8	133.6	154.1
July, 1925	190.9	206.3	181.3	170.3	135.9	88.8	121.2	154.1
October, 1925	165.8	210.2	169.2	132.4	140.0	91.2	124.8	154.1
January, 1926	158.6	201.4	197.8	128.7	116.1	87.8	132.8	158.6
April, 1926	142.4	178.5	184.3	116.4	107.3	87.2	124.8	154.1
July, 1926	143.6	170.6	193.8	128.6	110.7	88.4	119.0	154.1
October, 1926	100.6	178.5	164.0	124.2	116.2	88.3	121.9	— ¹
Average of 1926	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
January, 1927	76.5	96.3	91.2	101.1	108.0	94.4	99.7	103.1
April, 1927	83.5	94.2	86.6	96.9	128.9	93.0	99.7	98.9
July, 1927	102.6	96.3	93.0	134.6	129.1	90.4	95.0	98.5
October, 1927	120.3	102.9	82.4	115.7	150.3	94.1	92.7	97.3
January, 1928	108.4	109.5	83.5	116.7	165.8	100.4	90.3	95.5
April, 1928	115.7	120.4	91.5	136.1	140.0	102.4	90.3	93.7
July, 1928	122.6	120.4	82.3	142.4	157.3	105.1	88.0	92.4
October, 1928	111.9	120.4	76.5	123.5	153.5	110.1	90.6	93.2
January, 1929	115.2	122.6	78.6	120.5	142.0	119.9	93.9	92.8
April, 1929	114.6	107.3	78.1	119.3	145.6	128.0	95.0	90.7
July, 1929	106.0	96.3	91.5	131.1	157.2	128.6	97.4	90.6
October, 1929	105.8	96.3	85.1	127.2	139.7	128.6	97.4	91.8
January, 1930	98.5	85.4	83.4	114.3	130.9	128.6	97.4	92.0
April, 1930	92.9	67.9	70.2	108.7	131.8	111.2	97.4	90.4
July, 1930	75.1	63.5	60.7	107.2	97.4	80.8	95.5	90.2
October, 1930	61.0	63.5	52.9	110.9	104.6	69.8	91.5	90.2

¹ No quotations.

Prices of Staple Cotton Yarns in the United States on First of Each Quarter during Years 1919 to 1930 inclusive

[Prices are per pound]

Source: Daily News Record and Textile World

DATE	10s Single Southern Carded Frame Cones	20/2 Southern Carded Skeins	60/2 Eastern Combed Peeler Warps ¹
January 1, 1919	\$0 50 to \$0 53	\$0 62 to \$0 65	\$1 20 to \$1 30
April 1, 1919	41 to 43	46 to 50	1 05 to 1 10
July 1, 1919	55 to 57	67 to 69	1 55 to 1 60
October 1, 1919	60 to 63	70 to 72½	1 90 to 1 95
January 1, 1920	69 to 73	84 to 85	3 50
April 1, 1920	74 to 77	90 to 92	3 75
July 1, 1920	70 to 75	80 to 85	2 50
October 1, 1920	42 to 45	50 to 55	1 50
January 1, 1921	28 to 29	31 to 32	85
April 1, 1921	21 to 22	23 to 24	80
July 1, 1921	21 to 22	22½ to 23	85 to 95
October 1, 1921	35 to 37	36½ to 38	1 10
January 1, 1922	30½ to 31	33½ to 34	1 10
April 1, 1922	28½	31½	1 05
July 1, 1922	35	39	1 05
October 1, 1922	34 to 34½	38 to 38½	1 00
January 1, 1923	41½ to 42	49 to 49½	1 10 to 1 18
April 1, 1923	45½	54	1 05 to 1 15
July 1, 1923	39 to 39½	44½ to 45	95 to 1 05
October 1, 1923	44	49½ to 50	95 to 1 00
January 1, 1924	50	55	1 05 to 1 15
April 1, 1924	40½	44 to 44½	78 to 82
July 1, 1924	40	43½	74 to 78
October 1, 1924	40	44 to 44½	74 to 77
January 1, 1925	39	44½	77 to 80
April 1, 1925	39	43	76 to 79
July 1, 1925	36	38 to 38½	70 to 74
January 1, 1926	33½ to 34	36	88 to 90 ¹
April 1, 1926	30	33½	77 to 78
July 1, 1926	27½	30½	77 to 80
October 1, 1926	26	29½	67½ to 70
January 1, 1927	23½	26½ to 27	57 to 60
April 1, 1927	24½	28½ to 29	62 to 65
July 1, 1927	27½	30 to 31	67 to 69
October 1, 1927	34½	39 to 40	80 to 85
January 1, 1928	32	36½ to 37	68 to 71
April 1, 1928	31	34½ to 35	63 to 65
July 1, 1928	32½	36½	65 to 66
October 1, 1928	30½ to 31	35	59 to 62½
January 1, 1929	31½ to 32	36½ to 37	62 to 65
April 1, 1929	30 to 30½	35 to 35½	70 to 73
July 1, 1929	30	34 to 34½	68 to 70
October 1, 1929	30 to 30½	34 to 34½	65 to 68
January 1, 1930	29	32½ to 33	66 to 68
April 1, 1930	26 to 26½	29½ to 30	62
July 1, 1930	23	25½	61
October 1, 1930	20	22	55
January 1, 1931	19	21	53 to 54

¹ Beginning with 1926 figures are for 60/2 Southern combed, as Eastern combed were not reported.

Prices of Staple Cotton Yarns in the Philadelphia Market during the Year 1930

[Prices are cents per pound]

Source: Daily News Record

DATE	CARDED SINGLE WARPS			CARDED TWO-PLY WARPS			COMBED TWO-PLY WARPS			36s			Mid-up Spot Cotton New York 13½ Inches (in Cents) ¹
	10s	16s	20s	10s	20s	30s	40s	20s	40s	60s	80s	Northern Mule Spun Combed Pesler Cones	
January 2 .	29 -28½	31	32½	37½	30 -30½	33 -33½	38 -38½	45 -46	54 -56	66 -68	87 -89	57	17 45
13 .	29	30½	32	36½	29½	32½ -33	37½ -38	45	45 -46	54 -55	65½ -67	87 -89	57
February 1 .	27½	29	30½	36	28½	31½ -32	36½ -37	43	45 -46	54 -56	65½ -66	87 -89	57
15 .	27	28½	30	35½	28	31 -31½	35½ -36	43½	45 -46	51½ -53	63½ -65	85½ -88	53
March 1 .	26½	28	29½	34½	27	30	35	43	43 -44	50 -51	62 -63	83 -85	52
15 .	26½	28½	29½	34 -34½	27	30	35	43	43 -44	50 -51	62 -63	83 -85	52
April 1 .	26½	27½ -28	29	34 -34½	27½	30 -30½	34½ -35	42	43 -44	52	62	84	52
16 .	26½	27½ -28	29	34 -34½	27½	30 -30½	34½ -35	42	43 -44	52	62	84	52
May 1 .	26½	27½ -28	29	34 -34½	27½	30	34½ -35	42	43 -44	52	62	84	52
13 .	25½	27	28½	33 -34	26½	29½	34 -34½	42	43 -44	52	62	84	52
June 2 .	25 -25½	26½ -27	28	32½	26	28½	33 -33½	41	43 -44	52	62	84	52
16 .	24	25½	26	36 -36½	31	25	27½	31½ -32	39	43 -44	52	62	83
July 3 .	23½	25	25 -25½	30 -30½	24½	26	31	39	42 -43	51	61	82	49
16 .	23	24 -24½	25 -25½	30 -30½	23½ -24	25½	30	38	41	47	60	82	48
August 5 .	22 -22½	23½	24	29	22 -23	24 -25	29 -30	38	40	46	59	81	48
15 .	21½	23	23½	28½	22 -23½	24 -24½	29 -29½	37	39	45	58	80	48
September 4 .	20 -20½	21½ -22	22 -22½	27½	21 -21½	23	27½ -28	36	36	44	56 -56½	78 -78½	48
16 .	20 -20½	21½ -22	22 -22½	27	21 -21½	23	27 -27½	36	36	44	56	77	—
October 3 .	19½ -20	21 -21½	21½ -22	26½	20½	22 -22½	27	36	35½ -36½	42½	55	76½	47
16 .	19½ -20	21 -21½	21½ -22	26½	20½	22 -22½	27	36	35½	42½	55	76½	47
November 1 .	20½ -21	22 -22½	22½ -23	27½	21½	23 -23½	28	37	36	43½ -44	56 -57	77½ -79	47
10 .	20 -20½	21½ -22	22 -22½	27	21½	23 -23½	28	37	36	43½ -44	56 -57	77½ -79	47
December 2 .	20	21½	21½ -22	26 -26½	21	22	27	37	34½ -35	42 -43	54 -55	77 -78	47
12 .	19½	21	21 -21½	23½ -26	20½	21½	26½	37	34½ -35	42 -43	54 -55	77 -78	47

1 New Bedford basis.

Cotton Gray Goods Prices, December 31, 1928, 1929 and 1930

[Inventory Basis]

Source: Daily News Record

	Width	Con- struction	Yards per Pound	CENTS PER YARD		
				1928	1929	1930
Print cloth . . .	27-inch	64 x 60	7.60	5 $\frac{3}{4}$	4 $\frac{3}{4}$	3 $\frac{3}{4}$
Print cloth . . .	25-inch	56 x 44	10.55	4 $\frac{1}{4}$	3 $\frac{5}{8}$	2 $\frac{7}{8}$
Print cloth . . .	38 $\frac{1}{2}$ -inch	64 x 60	5.35	7 $\frac{5}{8}$	6 $\frac{3}{4}$	5 $\frac{1}{4}$
Print cloth . . .	39-inch	80 x 80	4.00	10 $\frac{3}{4}$	9 $\frac{1}{4}$	7 $\frac{3}{4}$
Sheeting . . .	36-inch	56 x 60	4.00	8 $\frac{7}{8}$	7 $\frac{1}{4}$	6
Sheeting . . .	36-inch	48 x 40	5.50	6 $\frac{1}{8}$	5 $\frac{3}{4}$	4 $\frac{1}{8}$
Sheeting . . .	37-inch	48 x 48	4.00	8 $\frac{3}{8}$	7 $\frac{1}{4}$	5 $\frac{1}{2}$
Sheeting . . .	40-inch	48 x 48	2.50	12 $\frac{3}{4}$	11 $\frac{1}{2}$	8
Sheeting . . .	40-inch	48 x 48	2.85	11 $\frac{3}{8}$	10	7
Drill . . .	30-inch	—	2.50	13 $\frac{1}{4}$	12 $\frac{1}{4}$	8 $\frac{3}{4}$
Drill . . .	37-inch	—	3.95	8 $\frac{1}{2}$	7 $\frac{3}{4}$	5 $\frac{5}{8}$
Jean . . .	30-inch	84 x 56	4.00	—	8 $\frac{1}{4}$	6 $\frac{1}{2}$
Three-leaf twill . .	39-inch	64 x 64	5.10	8 $\frac{1}{8}$	7 $\frac{1}{2}$	5 $\frac{1}{2}$
Three-leaf twill . .	39-inch	68 x 76	4.50	9 $\frac{3}{8}$	8 $\frac{1}{2}$	6 $\frac{1}{2}$
Albert (carded) . .	35-inch	64 x 80	5.10	10 $\frac{1}{2}$	—	9 $\frac{1}{2}$
Filling sateen . .	37 $\frac{1}{2}$ -inch	64 x 104	4.37	12 $\frac{1}{2}$	10 $\frac{3}{4}$	7 $\frac{3}{4}$
Domestic broadcloth . .	37-inch	144 x 76	4.40	35	35	29
Domestic broadcloth (carded) . .	37 $\frac{1}{2}$ -inch	112 x 60	4.00	12 $\frac{3}{4}$	10 $\frac{3}{4}$	9
Lawn (carded) . . .	36-inch	72 x 60	10.00	8 $\frac{1}{2}$	7 $\frac{3}{8}$	6 $\frac{1}{2}$
Lawn (carded) . . .	40-inch	88 x 80	6.00	13 $\frac{1}{2}$	12 $\frac{3}{4}$	11 $\frac{1}{2}$
Lawn (combed) . . .	40-inch	80 x 80	9.00	11 $\frac{3}{4}$	10 $\frac{3}{8}$	9 $\frac{1}{4}$
Lawn (combed) . . .	40-inch	84 x 80	11.00	15 $\frac{1}{2}$	13	11 $\frac{1}{2}$
Voile (slack twist) . .	40-inch	60 x 52	—	8 $\frac{3}{4}$	7 $\frac{3}{4}$	6 $\frac{1}{4}$
Voile (super hard twist) . . .	40-inch	60 x 56	—	11 $\frac{1}{2}$	10 $\frac{3}{4}$	8 $\frac{1}{2}$
Organdy . . .	40-inch	72 x 64	13.00	13	12 $\frac{1}{4}$	11
Pongee . . .	34-inch	72 x 100	7.00	13	10 $\frac{1}{2}$	8
Osnaburg (p. w.) . .	40-inch	—	7 oz.	12 $\frac{1}{4}$	11 $\frac{1}{4}$	7 $\frac{1}{4}$
17 $\frac{1}{4}$ -ounce square woven tire fabrics:						
Carded Peeler . . .	—	—	—	49 ¹	45 $\frac{1}{2}$ ¹	29 $\frac{3}{4}$ ¹
Cord tire fabrics:						
Carded Egyptian (uppers) . . .	—	—	—	55 $\frac{1}{2}$ ¹	49 ¹	40 $\frac{1}{4}$ ¹
Carded Peeler . . .	—	—	—	49 ¹	44 $\frac{3}{4}$ ¹	30 ¹
Print cloth yarn dobby fancies . .	—	—	—	48 ¹	42 ¹	34 ¹

¹ Cents per pound.

Prices of Gray Cloths and Spot Cotton during 1930

[Prices are cents per yard]

Source: Daily News Record and The Cotton Textile Institute

DATE	SHEETINGS			PRIST CLOTHS			DRILLS			TWILLS, 3-LEAF			COTTON Mid-up Spot, New York
	44 x 40 36-Inch 6.15 Yards	56 x 60 36-Inch 4.00 Yards	48 x 48 37-Inch 4.00 Yards	64 x 60 38.5-Inch 5.35 Yards	80 x 80 39-Inch 4.00 Yards	68 x 42 30-Inch 2.50 Yards	68 x 40 37-Inch 3.95 Yards	68 x 42 30-Inch 2.50 Yards	68 x 40 37-Inch 3.95 Yards	68 x 76 39-Inch 4.00 Yards	68 x 76 39-Inch 4.00 Yards	68 x 76 39-Inch 4.00 Yards	
January 3	5 1/4	8	7 1/4	7	9 1/2	12 1/4	8	9 3/8	9 1/4	17.50			
30	5 1/8	8	7 1/4	7 5/8	9 1/8	12	7 3/4	7 1/2	9 1/4	16.25			
February 7	5	7 3/4	7 3/4	6 3/8	9	11 3/4	7 1/2	9	9	15.85			
28	5	7 1/2	7	6 3/8	9	11 3/4	7 1/2	9	9	15.30			
March 10	5	6 3/4	6 3/4	6	8 3/4	11 3/8	7 1/4	8 3/4	8 3/4	14.00			
31	5	7 3/4	6 3/4	6 1/4	9	11 1/4	7 1/4	8 3/4	8 3/4	16.45			
April 7	5	7 3/4	6 1/4	6 1/4	9 1/8	11 1/4	7 1/4	8 1/8	8 1/8	16.75			
21	4 7/8	6 1/2	6 7/8	6	8 3/4	11 1/4	7 1/4	8 3/4	8 3/4	16.00			
May 6	4 7/8	7 1/2	6 7/8	6 1/8	9	11 1/4	7 1/4	7 1/8	8 3/4	16.55			
29	4 7/8	7 1/2	6 3/4	6	8 3/4	11	6 7/8	8 3/4	8 3/4	16.30			
June 12	4 3/4	7 1/4	6 5/8	6 5/8	8 1/2	11	6 3/4	8 3/4	8 3/4	15.85			
21	4 1/2	7 1/8	6 1/2	5 3/8	8 1/4	10 3/4	6 1/2	8 5/8	8 5/8	13.55			
July 10	4 1/2	7	6 1/4	5 3/8	7 3/4	10 1/4	6 1/4	8 1/4	8 1/4	13.30			
30	4 3/8	6 7/8	6 1/8	5 3/8	7 1/2	10 1/4	6 1/8	8 1/4	8 1/4	12.45			
August 19	4 1/8	6 1/2	5 3/4	4 3/4	6 3/4	9 3/4	5 7/8	7 3/4	7 3/4	11.00			
29	4 1/8	6 1/2	5 3/4	5 1/8	6 1/2	9 1/2	5 3/4	7 1/4	7 1/4	11.40			
September 10	4	6 1/2	5 3/4	5 1/4	7 1/4	9 1/2	5 3/4	7 1/4	7 1/4	11.50			
27	4	6 1/2	6	5 1/2	7 1/2	9 1/2	5 3/4	7 1/2	7 1/2	10.25			
October 7	4	6 1/2	6	5 1/2	7 1/2	9 1/2	5 3/4	7 1/2	7 1/2	10.15			
28	4	6 1/2	6	5 1/2	8	9 1/4	6	7 5/8	7 5/8	11.65			
November 10	4	6 1/2	6	5 3/4	8	9 1/4	6	7 5/8	7 5/8	10.80			
24	4	6 1/2	6	5 5/8	8	9 1/8	6	7 1/2	7 1/2	10.85			
December 17	3 7/8	6 1/8	5 1/8	5 1/4	7 1/8	7 1/4	9 45	7 1/4	7 1/4	9.45			
30	3 3/4	6	5 1/2	5 1/4	7 3/4	7	7	7	7	10.00			

Prices of Gray Cloth and Spot Cotton during 1930—(Concluded)

[Prices are cents per yard]

Source: Daily News Record

DATE	BROADCLOTHS			SATEENS			VOILE			ORGANDIE			LAWNS			RAYON ALPACA			RAYON VOILE			COTTON			
	COMBED		CARDED	WARP		FILLING	104 x 56		64 x 104	40-Inch		60 x 56	72 x 64		40-Inch	88 x 80		64 x 48	34.5-Inch		60 x 54	35.5-Inch		Mid-up Spot, New York	
	128 x 68	37.5-Inch	4.40 Yards	80 x 60	37.5-Inch	4.75 Yards	104 x 56	37.5-Inch	4.30 Yards	104 x 56	37.5-Inch	4.30 Yards	103 1/4	103 1/4	103 1/4	11 1/2	11 1/2	11 1/2	12 3/4	12 3/4	12 3/4	29	29	17.50	
January	3	.	.	16	7 7/8	7 3/4	10 1/2	10 1/2	9	9	9	9	12 1/4	12 1/4	12 1/4	11 1/2	11 1/2	11 1/2	12 3/4	12 3/4	12 3/4	29	29	16.25	
February	7	.	.	15 3/4	14 3/4	7 1/2	10 1/2	10 1/2	9	9	9	9	12 1/4	12 1/4	12 1/4	11 1/8	11 1/8	11 1/8	12 3/4	12 3/4	12 3/4	29	29	15.85	
March	10	.	.	15 1/2	15 1/2	7 3/8	10 1/4	10 1/4	9	9	9	9	12 1/4	12 1/4	12 1/4	11 1/8	11 1/8	11 1/8	12 3/4	12 3/4	12 3/4	28	28	15.30	
April	7	.	.	15 1/4	7 1/4	7 1/4	10 1/4	10 1/4	8 3/4	8 3/4	8 3/4	8 3/4	12 1/4	12 1/4	12 1/4	11 1/2	11 1/2	11 1/2	12 3/4	12 3/4	12 3/4	27	27	14.00	
	21	.	.	15 1/2	15 1/2	7 1/8	10 1/4	10 1/4	8 3/4	8 3/4	8 3/4	8 3/4	12 1/4	12 1/4	12 1/4	11 1/2	11 1/2	11 1/2	12 3/4	12 3/4	12 3/4	27	27	14.45	
May	6	.	.	15	7	10 1/4	9 3/4	9 3/4	8 1/2	8 1/2	8 1/2	8 1/2	11 1/2	11 1/2	11 1/2	11	11	11	12 1/4	12 1/4	12 1/4	26	26	16.75	
	29	.	.	15	7	10 1/4	9 3/4	9 3/4	8 1/2	8 1/2	8 1/2	8 1/2	11 1/2	11 1/2	11 1/2	11	11	11	12 1/4	12 1/4	12 1/4	25	25	16.00	
June	6	.	.	15	7	10 1/4	9 1/2	9 1/2	8 1/2	8 1/2	8 1/2	8 1/2	11 1/2	11 1/2	11 1/2	11	11	11	12 1/4	12 1/4	12 1/4	24 1/2	24 1/2	13.55	
	21	.	.	15	6 3/4	10	9 1/4	9 1/4	8 1/2	8 1/2	8 1/2	8 1/2	11 1/2	11 1/2	11 1/2	11	11	11	12 1/4	12 1/4	12 1/4	23 1/2	23 1/2	13.30	
July	21	.	.	14 3/4	6 5/8	10	9	8 1/4	8 1/4	8 1/4	8 1/4	10 3/4	10 3/4	10 3/4	11 1/2	11 1/2	11 1/2	12 1/4	12 1/4	12 1/4	22 1/2	22 1/2	12.45		
	19	.	.	14 3/4	6 5/8	—	8 3/4	8 3/4	8 1/4	8 1/4	8 1/4	8 1/4	10 3/4	10 3/4	10 3/4	11 1/2	11 1/2	11 1/2	12 1/4	12 1/4	12 1/4	21	21	11.00	
August	2	.	.	14 1/2	6 1/2	9 1/4	9 1/4	8 1/2	8 1/2	8 1/2	8 1/2	10 1/2	10 1/2	10 1/2	12	12	12	12 1/4	12 1/4	12 1/4	21	21	11.40		
	22	.	.	14 1/2	6	9	9	8 1/2	8 1/2	8 1/2	8 1/2	10 1/2	10 1/2	10 1/2	—	—	—	11 1/2	11 1/2	11 1/2	21 1/2	21 1/2	11.50		
September	10	.	.	14	6 1/8	8 3/4	7 3/4	8	8	8	8	11 1/4	11 1/4	11 1/4	10 1/2	10 1/2	10 1/2	—	—	—	21	21	10.25		
	29	.	.	14 1/2	6 3/8	8 3/4	8	8	8	8	8	8	11 1/4	11 1/4	11 1/4	10 1/4	10 1/4	10 1/4	—	—	—	21	21	10.15	
October	7	.	.	14 1/4	6 5/8	8 3/4	8	8	7 3/4	7 3/4	7 3/4	7 3/4	11 1/4	11 1/4	11 1/4	10 1/4	10 1/4	10 1/4	—	—	—	21	21	11.65	
	28	.	.	14	6 5/8	9 3/4	9 3/4	9 3/4	7 3/4	7 3/4	7 3/4	7 3/4	11 1/4	11 1/4	11 1/4	10 1/4	10 1/4	10 1/4	—	—	—	20 1/2	20 1/2	10.80	
November	10	.	.	13 3/4	6 1/2	9	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	11 1/4	11 1/4	11 1/4	10 1/4	10 1/4	10 1/4	—	—	—	20	20	10.85	
December	17	.	.	13 1/2	6 3/8	8 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	11 1/4	11 1/4	11 1/4	10	10	10	—	—	—	20	20	9.45	
	30	.	.	13	5 7/8	8 1/2	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	7 3/4	11 1/4	11 1/4	11 1/4	10 1/2	10 1/2	10 1/2	—	—	—	20	20	10.00	

Prices of Staple Cotton Cloths in the United States 1919 to 1930,
inclusive

[Prices are per linear yard]

Source: Daily News Record

DATE	Print Cloth 38½", 64 x 60 5.35 Yards per Pound	Brown Sheeting 36", 56 x 60 4 Yards per Pound	Fine Lawn 40", 88 x 80 8.50 Yards per Pound
January 1, 1919	\$0 12 ¹ ₄	\$0 16	\$0 19 ¹ ₂
April 1, 1919	09 ³ ₄	12	16
July 1, 1919	17	18 ¹ ₂	26 ¹ ₂
October 1, 1919	17	19 ¹ ₂ to \$0 20	29
January 1, 1920	20 ¹ ₄	25	40
April 1, 1920	23	26 ¹ ₂ to 27	40
July 1, 1920	20	22 ¹ ₂	29
October 1, 1920	12 ¹ ₂	15 ¹ ₂	24 ¹ ₂
January 1, 1921	08	09 ³ ₄	15 ¹ ₂
April 1, 1921	06 ⁵ ₈	08	14 ³ ₄
July 1, 1921	06 ³ ₈	07 ¹ ₄	13 ¹ ₂
October 1, 1921	09 ¹ ₂	11 ¹ ₂	16 ¹ ₂
January 1, 1922	09	09 ³ ₄	15 ³ ₄
April 1, 1922	07 ³ ₈	09	14 ¹ ₂
July 1, 1922	08 ¹ ₂	10 ¹ ₄	15 ¹ ₄
October 1, 1922	09	10 ¹ ₂ to 10 ³ ₄	15
January 1, 1923	10 ³ ₈	12 to 12 ¹ ₄	15 ¹ ₂
April 1, 1923	10 ⁷ ₈	12 ³ ₄	16
July 1, 1923	09 ¹ ₂	11 ¹ ₄	15 ¹ ₄
October 1, 1923	09 ³ ₄	12 ¹ ₄	15 ¹ ₂
January 1, 1924	11	13 ¹ ₂	15 ¹ ₄
April 1, 1924	09 ¹ ₄	11	14 ³ ₄
July 1, 1924	08 ³ ₄	10 ³ ₄	14 ¹ ₂
October 1, 1924	09	11	14 ¹ ₂
January 1, 1925	09 ¹ ₄	10 ⁷ ₈	14 ¹ ₁
April 1, 1925	09	10 ² ₄	14 ¹ ₄
July 1, 1925	09 ¹ ₄	09 ³ ₄	13 ³ ₄
October 1, 1925	09 ¹ ₄	11 ¹ ₈	14
January 1, 1926	08 ³ ₄	09 ³ ₄	13 ³ ₄
April 1, 1926	07 ³ ₄	09 ⁵ ₈	13 ¹ ₂
July 1, 1926	07	08 ³ ₄	13 ¹ ₄
October 1, 1926	07 ³ ₈	08 ¹ ₂	12 ³ ₄
January 1, 1927	06 ⁵ ₈	07 ² ₄	12 ¹ ₄
April 1, 1927	06 ³ ₄	08	12 ¹ ₄
July 1, 1927	07 ¹ ₄	08 ¹ ₂	12
October 1, 1927	08 ³ ₄	10 ³ ₄	13
January 1, 1928	08	09 ⁵ ₈	12 ³ ₄
April 1, 1928	07 ⁵ ₈	08 ⁷ ₈	12 ³ ₄
July 1, 1928	08	09	12 ³ ₄
October 1, 1928	07 ⁵ ₈	08 ⁷ ₈	12 ² ₂
January 1, 1929	07 ⁵ ₈	08 ⁷ ₈	12 ¹ ₁
April 1, 1929	07 ⁵ ₈	08 ⁵ ₈	12 ¹ ₂
July 1, 1929	07 ¹ ₄	08 ¹ ₄	12 ³ ₈
October 1, 1929	07 ⁵ ₈	08 ⁵ ₈	12
January 1, 1930	06 ³ ₄	07 ¹ ₄	11 ¹ ₂
April 1, 1930	06 ¹ ₄	07 ⁵ ₈	11
July 1, 1930	05 ³ ₈	07	10 ¹ ₄
October 1, 1930	05 ¹ ₂	06 ¹ ₂	10 ¹ ₄

Average Yearly Print Cloth Prices

[Figures for Calendar Years]

Source: Daily News Record

YEAR	25-Inch 56 x 44 10.55 Yard	27-Inch 64 x 60 7.60 Yard	38½-Inch 44 x 40 8.20 Yard	38½-Inch 64 x 48 6.25 Yard	38½-Inch 64 x 60 5.35 Yard	39-Inch 68 x 72 4.75 Yard	39-Inch 72 x 76 4.25 Yard	39-Inch 80 x 80 4.00 Yard	Average Cotton Goods Prices ¹	New York Middling Spot Cotton
Pre-war average (1911-12-13)	2.492	3.308	3.237	4.243	4.852	5.470	6.158	6.942	8.054	12.55
1916	3.059	4.118	4.178	5.200	6.031	6.781	7.370	8.011	9.860	14.45
1917	5.113	6.656	6.307	8.046	9.399	10.701	11.853	12.795	15.074	23.80
1918 ²	8.232	11.513	10.300	14.029	15.152	18.338	20.332	20.930	23.533	31.59
1919	8.010	9.869	9.300	12.650	13.700	16.695	19.258	21.670	21.912	32.37
1920	9.848	12.336	12.100	15.848	17.280	18.788	21.649	23.915	26.000	33.79
1921	3.953	5.079	4.855	6.565	7.710	8.869	9.635	11.387	13.018	15.05
1922	5.076	6.823	6.276	7.962	8.943	10.008	11.622	12.605	15.090	22.44
1923	5.426	7.461	7.052	8.835	10.198	11.721	12.646	13.608	17.145	29.30
1924	4.887	6.780	6.227	7.875	9.063	10.382	11.837	13.279	16.084	28.75
1925	4.786	6.535	6.183	7.981	9.222	10.541	11.802	12.700	15.097	23.43
1926	3.845	5.196	5.016	6.398	7.491	8.547	9.587	10.593	12.858	17.50
1927	4.115	5.490	5.053	6.533	7.586	8.616	9.692	10.459	12.663	17.55
1928	4.239	5.722	5.114	6.634	7.667	8.763	9.824	10.779	13.141	20.02
1929	4.068	5.221	4.818	6.319	7.427	8.347	9.410	10.159	12.938	19.11
1930	3.155	4.246	3.941	4.988	5.722	6.615	7.466	8.199	10.698	16.60

¹ This average includes, among others, eight print cloths, five sheetings, four drills, four standard colored goods, four bleached goods and two ducks.² In June, 1918, the government announced a list of maximum prices on cotton goods. These prices were really in effect till the end of the year. After the armistice in November, however, business almost ceased and there was practically no market. This may explain some figures which would otherwise seem irregular.

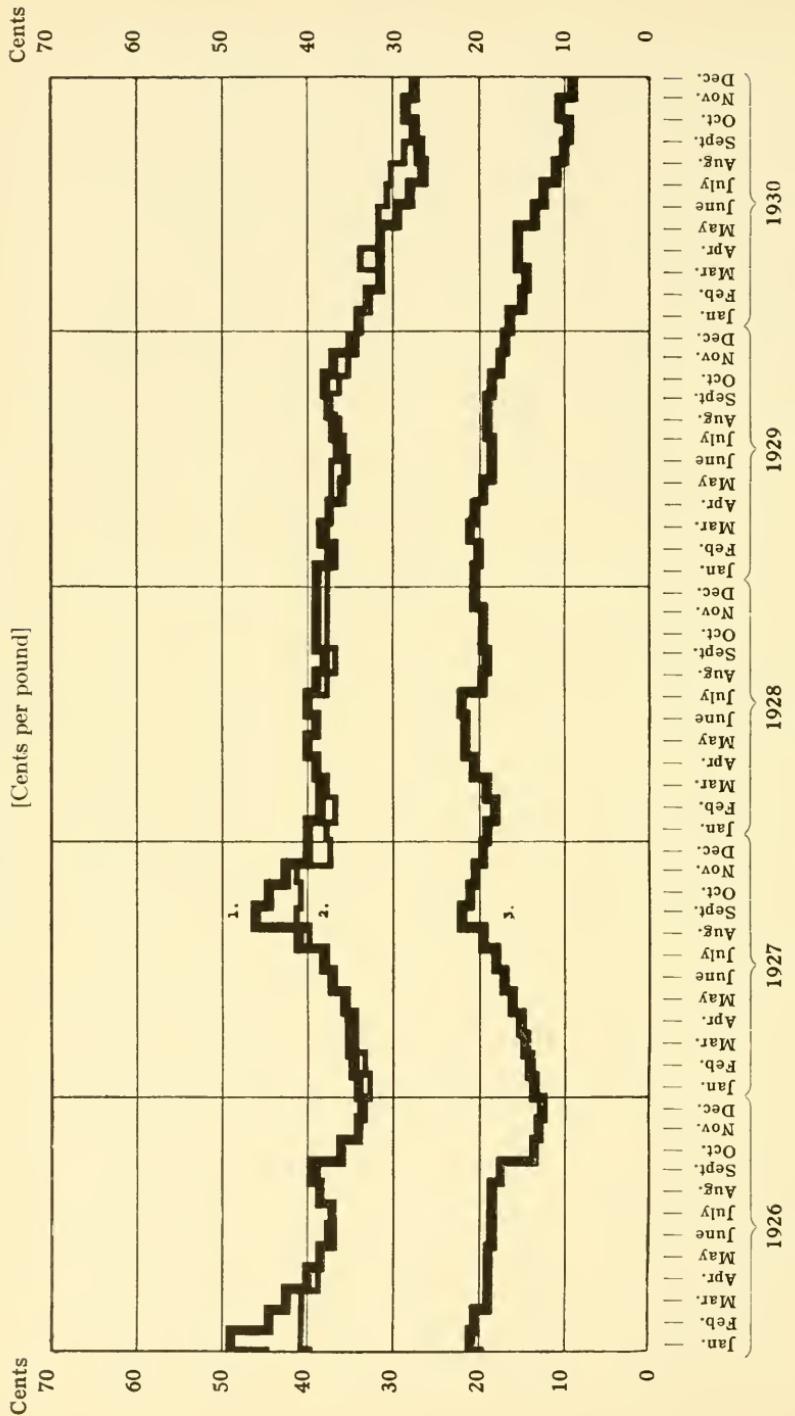
Average Yearly Standard Colored Goods and Bleached Goods Prices

[Figures for Calendar Years]

Source: Daily News Record

Cloths	Pre-war Average (1911-12-13)	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
Standard 2/20 denim	11.485	15.666	19.486	23.826	21.456	18.912	15.425	16.115	17.947	16.646	13.575
Standard fine chambray, about 5.00 yard	6.625	12.375	14.281	14.230	12.466	12.057	9.925	10.344	10.784	10.684	9.187
Standard 3.80 work shirt chambray	6.916	11.156	13.929	15.403	14.014	13.465	11.613	11.426	11.776	11.373	9.451
27-inch Eastern Standard staple gingham	6.194	12.329	13.820	14.395	12.207	11.146	8.937	9.486	10.524	10.250	9.416
Standard 8-ounce ticking	13.138	19.250	23.156	26.740	25.866	23.658	19.236	20.016	21.418	20.549	16.881
Standard branded bleached muslin, Class A	8.432	16.684	17.278	18.497	18.337	17.996	16.611	16.123	16.625	16.915	15.629
Standard branded bleached muslin, Class B	7.235	13.330	13.812	15.014	14.805	14.206	12.507	11.849	11.869	11.814	10.000
10/4 bleached wide sheeting, Class A	25.857	50.730	52.091	57.484	56.397	52.277	48.335	45.841	47.936	50.088	39.472
10/4 bleached wide sheeting, Class B	22.308	46.215	47.104	51.346	50.295	46.708	41.075	38.979	40.573	41.485	32.264

International Cotton Gray Cloth Prices
[Cents per pound]



1 = New York — gray cloth average prices
2 = Manchester — gray cloth average prices

3 = Average spot prices of Middling Cotton at New York

International Comparative Gray Cloth Prices

[Cents per pound at current exchange]

Source: United States Department of Commerce

WEEK ENDED	NEW YORK			MANCHESTER			10-market average price of middling spot cotton	
	1928		1929	1928		1929	1929	1930
	1928	1929	1930	1928	1929	1930	1928	1929
January 7	40.13	38.48	34.09	38.12	37.84	35.08	18.68	16.39
14	39.80	38.36	33.92	37.70	38.21	34.89	19.06	16.80
21	39.28	38.36	33.92	37.54	37.91	34.74	19.05	16.74
28	38.86	37.90	33.92	36.94	37.74	34.27	18.67	16.38
February 4	38.47	37.47	32.74	36.52	37.36	33.39	18.48	15.60
11	38.70	37.40	32.52	36.84	37.91	33.04	18.83	15.32
18	38.49	37.32	32.91	37.22	37.56	33.02	18.88	15.11
25	38.72	37.32	32.33	37.71	38.03	32.68	19.24	14.70
March 4	38.77	37.93	31.83	37.71	38.17	32.66	19.99	14.51
11	38.52	38.86	31.14	37.70	38.27	31.85	19.96	13.96
18	38.52	38.96	31.37	38.14	38.39	32.48	19.65	15.13
25	38.77	38.88	31.88	38.54	38.19	33.12	19.34	15.16
April 1	38.73	38.18	31.88	38.54	38.13	33.31	19.37	15.89
8	38.65	37.87	31.70	38.96	38.19	33.26	19.43	15.69
15	38.65	37.75	31.41	38.98	38.16	33.25	19.20	14.99
22	38.89	37.60	31.15	38.94	37.78	33.13	18.53	14.80
29	39.99	36.97	31.38	40.01	37.10	32.99	17.92	15.08
May 6	40.17	36.54	31.38	40.02	37.02	32.64	18.14	15.31
13	39.91	36.47	31.15	39.45	36.85	32.63	18.12	15.24
20	39.59	36.16	31.15	39.37	36.84	32.61	18.54	15.09
27	39.15	35.69	30.92	39.38	36.56	32.36	18.36	14.89
June 3	38.60	35.76	30.72	39.36	36.54	32.35	18.59	14.62
10	38.25	35.65	30.42	39.16	36.65	32.16	18.46	13.96
17	38.26	35.69	29.86	39.20	36.74	31.32	18.44	12.33
24	39.63	35.69	28.50	37.93	36.74	31.22	18.21	12.02
July 1	40.10	35.69	28.34	39.98	36.28	31.04	17.93	12.50
8	40.00	35.77	28.55	39.92	36.67	30.98	18.27	12.13
15	40.07	35.70	28.14	39.52	36.28	31.02	18.09	12.19
22	40.00	36.38	28.15	38.97	36.86	30.96	18.50	12.39
29	40.00	36.94	27.92	38.88	37.02	30.72	18.52	11.97
August 5	39.00	36.94	27.82	37.94	37.63	30.99	18.55	12.06
12	38.38	37.11	27.44	37.28	36.46	30.20	17.87	11.47
19	38.42	37.23	25.91	37.18	37.02	29.69	18.13	10.28
26	38.34	37.32	26.14	37.18	36.61	29.69	17.94	10.75
September 2	38.41	37.39	26.63	37.65	36.57	29.69	18.68	10.31
9	37.74	37.49	26.95	36.50	36.56	28.93	18.09	10.30
16	37.42	37.49	26.95	36.40	36.20	28.72	17.90	10.26
23	37.80	37.78	27.56	37.21	36.21	28.39	17.70	9.94
30	38.76	37.78	27.64	37.40	36.37	27.91	18.29	9.56
October 7	38.96	38.00	27.55	37.88	36.68	27.91	17.76	9.42
14	39.13	38.00	27.70	37.99	36.38	28.02	17.48	9.62
21	39.36	38.00	27.79	38.15	36.33	28.25	17.78	9.65
28	39.21	38.00	28.16	37.80	36.09	28.05	17.21	10.72
November 4	39.21	38.00	28.67	37.21	36.30	28.66	16.70	10.27
11	39.21	37.78	28.44	37.58	35.08	28.34	16.18	9.97
18	39.00	36.85	28.24	37.70	35.14	28.20	16.95	10.09
25	39.30	36.13	28.17	38.32	35.37	28.15	16.71	9.98
December 2	39.40	35.51	28.09	38.09	35.18	27.70	16.94	9.82
9	39.03	34.97	27.57	37.98	35.20	27.58	16.75	9.43
16	38.87	34.36	26.88	38.12	35.19	26.80	16.40	8.72
23	38.77	34.21	26.43	38.14	35.13	26.89	16.62	8.89
30	38.70	34.56	26.58	38.11	35.14	26.89	16.67	9.05
Year's average	39.04	37.05	29.59	38.18	36.85	30.86	18.19	12.64

Activity of the American Cotton Industry

Source: United States Bureau of the Census

	Normal Days of Operation	Total Spindle Hours (Millions)	Hours per Spindle in Place	Hours per Spindle in Place Relative to 1922	Per Cent of Capacity
1922 monthly average .	—	7,723	209	100	93.7
1927 monthly average .	—	8,708	236	113	104.7
1928 monthly average .	—	7,729	216	103	95.3
1929 monthly average .	—	8,323	238	114	104.8
1930 monthly average .	—	6,392	187	88	82.3
1928					
January . . .	25½	8,259	227	109	101.0
February . . .	24½	7,969	220	105	101.3
March . . .	27	8,312	231	110	96.8
April . . .	24½	7,416	206	99	94.8
May . . .	26½	7,959	222	106	95.1
June . . .	26	7,248	203	97	88.4
July . . .	25	6,259	176	84	79.7
August . . .	27	7,431	209	100	87.1
September . . .	24½	6,961	196	94	90.1
October . . .	26¾	8,694	246	118	103.5
November . . .	25¼	8,524	241	115	107.4
December . . .	25	7,711	219	105	98.3
1929					
January . . .	26½	9,225	261	125	111.0
February . . .	23½	8,221	233	112	110.7
March . . .	26	8,910	252	115	109.4
April . . .	25½	8,861	251	115	110.3
May . . .	26½	9,165	261	125	110.9
June . . .	25	8,155	232	111	104.8
July . . .	25	7,744	222	106	100.3
August . . .	27	8,130	234	112	97.3
September . . .	24½	7,881	226	108	103.5
October . . .	26¾	9,004	258	123	108.8
November . . .	25¼	7,812	226	108	100.7
December . . .	25	6,770	196	94	88.0
1930					
January . . .	26½	8,173	236	113	100.2
February . . .	23½	7,091	205	98	97.4
March . . .	26	7,350	214	103	92.6
April . . .	25½	7,503	219	105	96.1
May . . .	26½	6,729	197	94	83.4
June . . .	25	5,778	169	81	76.2
July . . .	26	5,297	156	75	67.2
August . . .	26	5,134	151	72	65.2
September . . .	24½	5,662	167	80	76.4
October . . .	26¾	6,239	184	88	77.1
November . . .	24½	5,831	173	83	80.1
December . . .	26	5,916	176	84	76.1

Wage Rates paid by Cotton Mills of Lancashire, England, since 1853

The table below gives the wage rates paid under the standard lists of Lancashire in terms of percentage of the basic list prices. Basic list prices are indicated by 100; rates 5 per cent above list are expressed by 105; rates 5 per cent below list are expressed by 95, etc.

END OF YEAR —	COTTON SPINNING		Cotton Weaving Blackburn ¹ and Uniform Lists
	Bolton List	Oldham List	
1853	No list	No list	Blackburn list adopted +10
1854-57	No list	No list	100
1858	List adopted	No list	100
1859	100	No list	100
1860	105	No list	105
1861-65	100	No list	100
1866	105	No list	100
1867	100	No list	100
1868	100	No list	100
1869	95	No list	95
1870	95	No list	100
1871	100	No list	100
1872-73	105	No list	100
1874	100	No list	100
1875	105	No list	100
1876	105	List adopted	100
1877	100		95
1878	100	85	90
1879	90	80	85
1880	95	85	85
1881-82	95	90	90
1883	95	90	85
1884	95	90	90
1885-87	90	85	90
1888-89	95	90	90
1890	100	90	90
1891	100	95	90
1892	100	95	Uniform list adopted -10
1893-98	100	92.09	
1899	100	95	90
1900-04	105	100	92.5
1905	105	100	92.5
1906	105	105	97.5
1907-08	110	110	100
1909-11	105	105	100
1912-14	105	105	105
1915	110	110	105
1916	115	115	110
1917	140	140	140
1918	215	215	215
1919	245	245	245
1920	315 ²	315 ²	315 ³
1921	245	245	245
1922-28	195	195	195
1929	182.5	182.5	182.5
1930	182.5	182.5	182.5

¹ Blackburn list succeeded by Uniform list in 1892.

² Strippers and grinders, blowing-room operatives, and leading men in cotton rooms received in 1920 an additional 10 per cent on wages realized after the addition of the 70 per cent of the list.

³ Tapers, dry tapers, warp dressers, and loom overlookers received an advance in 1920 of only 55 per cent of list, instead of the 70 per cent which other operatives received. In 1921 these operatives were reduced only 55 per cent instead of the 70 per cent by which other workers were cut down.

General Wage Changes in New Bedford since 1870

PERIOD	Advance or Reduction from Previous Rate (Per Cent)	Percentage of January, 1870, Rate	Percentage of Pre-war Rate
January, 1870, to March, 1870 . . .	—	100.00	—
March, 1870, to December, 1873 . . .	+10	110.00	—
December, 1873, to December, 1875 . . .	-10	99.00	—
December, 1875, to August, 1878 . . .	-10	89.10	—
August, 1878, to January, 1880 . . .	-10	80.19	—
January, 1880, to April, 1880 . . .	+10	88.20	—
April, 1880, to April, 1884 . . .	+10	97.02	—
April, 1884, to April, 1885 . . .	-10	87.31	—
April, 1885, to April, 1886 . . .	-10	78.57	—
April, 1886, to April, 1888 . . .	+10	86.42	—
April, 1888, to August, 1892 . . .	+5	90.74	—
August, 1892, to December, 1892 . . .	+3	93.46	—
December, 1892, to September, 1893 . . .	+7	100.00	—
September, 1893, to August, 1894 . . .	-10@15	87.50	—
August, 1894, to April, 1895 . . .	-5	83.12	—
April, 1895, to January, 1898 . . .	+5	87.27	—
January, 1898, to April, 1899 . . .	-10	78.54	—
April, 1899, to December, 1899 . . .	+10	86.39	—
December, 1899, to April, 1902 . . .	+10	95.02	—
April, 1902, to December, 1903 . . .	+10	104.52	—
December, 1903, to July, 1906 . . .	-10 ¹	95.02	—
July, 1906, to December, 1906 . . .	+5	99.77	—
December, 1906, to May, 1907 . . .	+7 $\frac{1}{2}$	107.25	—
May, 1907, to April, 1908 . . .	+10	117.97	—
April, 1908, to March, 1912 . . .	-10	106.17	—
March, 1912, to January, 1916 . . .	+10	116.78	100.00
January, 1916, to April, 1916 . . .	+5	122.61	105.00
April, 1916, to November, 1916 . . .	+10	134.87	115.50
November, 1916, to June, 1917 . . .	+10	148.35	127.05
June, 1917, to November, 1917 . . .	+10	163.18	139.76
November, 1917, to June, 1918 . . .	+10	179.49	153.74
June, 1918, to June, 1919 . . .	+17 $\frac{1}{2}$	210.90	180.64
June, 1919, to December, 1919 . . .	+15	242.53	207.74
December, 1919, to June, 1920 . . .	+12 $\frac{1}{2}$	272.84	233.71
June, 1920, to January, 1921 . . .	+15	313.76	268.77
January, 1921, to April, 1923 . . .	-22 $\frac{1}{2}$	243.16	208.30
April, 1923, to January, 1925 . . .	+12 $\frac{1}{2}$	273.56	234.34
January, 1925, to April, 1928 . . .	-10	246.21	210.91
April, 1928, to October, 1928 . . .	-10	221.59	189.82
October, 1928, to — . . .	+5 $\frac{1}{2}$	233.77	200.26
1931	-10	150	—

¹ Approximate reduction of 10 per cent to scale of December, 1899.

Wage Rates paid for weaving Print Cloths in Fall River

Prices paid for weaving 47½ yards of 28-inch, 64 x 64, 7-yard print cloth

PERIOD	Wage Rate	Advance or Reductions from Previous Rate (Per Cent)	Percentage of 1906 Rate	Percentage of Pre-war Rate
July, 1906, to November, 1906 .	1980	+6 ⁴ / ₁₀	100	—
November, 1906, to May, 1907 .	2178	+10	110	—
May, 1907, to May, 1908 .	2396	+10	121	—
May, 1908, to March, 1912 .	1966	-17 ⁹ / ₁₀	99	—
March, 1912, to January, 1916 .	2163	+10	109	100.00
January, 1916, to May, 1916 .	2271	+5	115	105.00
May, 1916, to December, 1916 .	2498	+10	126	115.50
December, 1916, to June, 1917 .	2748	+10	139	127.05
June, 1917, to December, 1917 .	3023	+10	154	139.76
December, 1917, to June, 1918 .	3401	+12½	172	157.23
June, 1918, to June, 1919 .	3911	+15	198	180.81
June, 1919, to December, 1919 .	4498	+15	227	207.93
December, 1919, to June, 1920 .	5060	+12½	256	233.92
June, 1920, to January, 1921 .	5819	+15	293	269.01
January, 1921, to April, 1923 .	4510	-22½	228	208.48
April, 1923, to January, 1925 .	5074	+12½	257	234.54
January, 1925, to January, 1928 .	4567	-10	231	211.09
January, 1928, to October, 1928 .	4108	-10	208	189.99
October, 1928, to — . . .	4334	+5½	219	200.43

Average Cash Dividends of New Bedford and Fall River Mills

Source: Sanford & Kelly of New Bedford and G. M. Haffards & Co. of Fall River

YEAR	New Bedford	Fall River
1914	4.76 per cent on \$39,225,000 capital	4.03 per cent on \$30,349,700 capital
1915	7.83 per cent on \$39,725,000 capital	3.77 per cent on \$30,349,700 capital
1916	7.33 per cent on \$40,675,000 capital	8.01 per cent on \$30,486,700 capital
1917	16.47 per cent on \$49,012,300 capital	13.08 per cent on \$33,111,700 capital
1918	12.66 per cent on \$50,656,300 capital	18.02 per cent on \$34,111,700 capital
1919	13.30 per cent on \$50,572,500 capital	14.46 per cent on \$34,111,700 capital
1920	26.17 per cent on \$50,966,500 capital	32.77 per cent on \$33,860,000 capital
1921	9.19 per cent on \$59,374,000 capital	8.01 per cent on \$38,610,000 capital
1922	9.72 per cent on \$61,735,200 capital	9.60 per cent on \$37,210,000 capital
1923	6.96 per cent on \$72,251,900 capital	7.81 per cent on \$44,666,700 capital
1924	5.13 per cent on \$73,251,900 capital	6.45 per cent on \$43,665,000 capital
1925	5.30 per cent on \$74,028,900 capital	5.03 per cent on \$43,585,000 capital
1926	4.00 per cent on \$72,698,700 capital	3.48 per cent on \$43,585,000 capital
1927	3.50 per cent on \$72,461,900 capital	3.51 per cent on \$41,660,000 capital
1928	2.08 per cent on \$71,692,900 capital	2.94 per cent on \$39,844,725 capital
1929	2.11 per cent on \$50,741,973 capital	3.83 per cent on \$31,555,200 capital
1930	1.08 per cent on \$47,508,681 capital	1.97 per cent on \$23,273,663 capital

Gross Manufacturing Margins on Staple Yarns and Cloths in the United States

[Cents per pound]

Source: Garside Cotton Service

		Average Margin on Four Yarns	Average Margin on Three Print Cloths	Average Margin on Three Sheetings	Average Margin on Two Ducks and Two Drills
October	7, 1927	8.98	19.10	13.70	12.73
November	4, 1927	8.26	18.35	12.73	11.63
December	2, 1927	8.14	16.91	11.94	11.46
January	6, 1928	8.25	17.93	11.66	10.48
February	3, 1928	8.75	18.48	12.53	11.93
March	2, 1928	7.68	17.22	10.62	10.35
April	6, 1928	6.87	16.32	9.17	9.33
May	4, 1928	5.90	16.14	8.30	8.70
June	1, 1928	6.84	15.54	8.70	9.34
July	6, 1928	5.64	14.94	7.03	7.55
August	3, 1928	7.01	17.11	9.24	9.94
September	7, 1928	7.15	17.23	9.69	11.21
October	5, 1928	8.15	18.59	9.67	10.65
November	2, 1928	9.38	18.97	10.19	11.51
December	7, 1928	9.31	17.89	9.64	11.44
January	4, 1929	8.92	17.26	9.52	11.38
February	1, 1929	8.33	15.94	9.10	11.44
March	1, 1929	7.21	15.16	8.21	10.51
April	5, 1929	6.81	15.54	8.81	10.38
May	3, 1929	7.71	15.48	9.43	10.98
June	7, 1929	6.74	13.23	8.55	10.75
July	5, 1929	7.35	13.59	8.58	11.36
August	2, 1929	7.28	14.23	9.31	10.78
September	6, 1929	7.40	14.98	9.72	10.63
October	4, 1929	8.33	16.35	10.58	12.02
November	1, 1929	9.54	16.92	11.53	12.84
December	6, 1929	8.51	14.40	9.95	11.70
January	3, 1930	8.08	14.26	8.97	11.02
February	7, 1930	8.16	13.43	9.07	11.92
March	7, 1930	7.93	13.69	9.42	11.47
April	4, 1930	6.56	12.69	7.76	9.09
May	2, 1930	7.02	12.89	7.91	9.03
June	6, 1930	6.91	12.99	8.56	9.78
July	4, 1930	7.30	12.48	9.12	11.34
August	1, 1930	6.80	13.03	8.82	11.57
September	5, 1930	6.78	13.92	9.22	11.82
October	3, 1930	7.35	16.32	10.90	12.25
November	7, 1930	7.49	16.87	10.46	10.47
December	5, 1930	7.39	16.34	10.71	10.39
January	2, 1931	7.09	15.46	9.77	9.86
February	6, 1931	5.87	14.19	8.50	8.36
March	6, 1931	5.72	14.48	7.59	7.65

These weekly average margins show the spread between the price of cotton after making an allowance for waste and the price of yarns and cloths.

United States Exports of Cotton Machinery, 1930

[Figures for Calendar Years]

Source: United States Department of Commerce

COUNTRY OF DESTINATION	Looms	Spinning and Twisting Machinery	Knitting Machinery	Other Cotton Machinery
Belgium	—	976	7,934	98,205
France	26,021	12,802	111,258	83,848
Germany	3,175	211,010	70,088	58,613
Italy	13,079	4,808	35,980	48,146
Netherlands	—	—	873	6,093
Poland and Danzig	—	—	—	4,805
Spain	5,100	8,843	51,415	30,812
United Kingdom	25,570	33,067	1,072,538	60,596
Canada	61,672	76,383	587,300	496,849
Mexico	—	2,343	148,265	69,694
Argentina	—	3,618	70,385	10,696
Brazil	—	9,027	56,226	32,412
Chile	9,205	—	49,885	2,688
Colombia	—	54	9,633	12,000
British India	—	3,984	6,556	27,295
China	425	4,685	17,180	60,850
Hongkong	—	—	30,220	2,070
Japan	18,871	160,096	149,380	7,353
Australia	5,494	5,132	449,566	5,639
All other countries	4,703	4,868	173,456	128,534
Total	\$173,315	\$541,696	\$3,098,138	\$1,247,198

Calculated Total World's Cotton Spinning Spindles (000's omitted) for the Half Years January 31, 1930, and July 31, 1930, on Basis of Returns made to the International Cotton Federation

COUNTRIES	TOTAL ESTIMATED NUMBER OF SPINNING SPINDLES	MULE SPINDLES		RING SPINDLES		SPINNING SPINDLES EGYPTIAN COTTON		SPINDLES IN COURSE OF ERECTION	
		HALF-YEAR ENDED		HALF-YEAR ENDED		HALF-YEAR ENDED		HALF-YEAR ENDED	
		Jan. 31, 1930	July 31, 1930	Jan. 31, 1930	July 31, 1930	Jan. 31, 1930	July 31, 1930	Jan. 31, 1930	July 31, 1930
Europe:									
1 Great Britain	55,277	55,207	42,766	42,082	13,511	13,125	18,175	19,487	18
2 Germany	11,260	11,070	4,630	4,556	6,630	6,514	1,273	1,053	86
3 France	9,891	10,250	3,441	3,545	6,450	6,705	2,450	1,677	19
4 Russia ¹	7,624	7,612	2,252	2,187	5,372	5,425	225	225	—
5 Italy	5,317	5,342	614	615	4,703	4,727	639	541	4
6 Czechoslovakia	3,663	3,636	1,676	1,640	1,987	1,996	427	404	3
7 Belgium	2,179	2,172	463	438	1,716	1,734	41	48	1
8 Spain	1,875	1,872	10	10	1,865	1,865	130	130	—
9 Poland	1,554	1,554	403	418	1,091	1,136	208	180	—
10 Switzerland	1,454	1,446	636	611	818	835	725	804	34
11 Holland	1,163	1,167	251	251	912	916	—	—	2
12 Austria	828	817	284	284	544	533	47	44	—
13 Sweden	627	617	93	79	534	538	14	10	7
14 Portugal	503	503	173	173	330	330	—	—	—
15 Finland	262	262	45	45	217	217	8	8	6
16 Hungary ²	176	199	30	41	146	158	5	5	2
17 Denmark	98	99	4	5	94	94	—	—	—
18 Norway	60	60	13	13	47	47	—	—	1
Total	104,751	103,888	57,784	56,993	46,967	46,895	24,393	24,620	214
Asia:									171
19 India	8,807	8,907	871	871	7,936	8,036	31	93	65
20 Japan	6,837	7,072	35	41	6,802	7,031	585	599	25
21 China	3,699	3,829	—	—	3,039	3,829	—	200	130
Total	19,343	19,808	906	912	18,437	18,896	616	692	384
America:									375
22 United States ³	34,631	34,031	1,800	1,600	32,831	32,431	2,000	2,000	—
23 Canada	1,283	1,277	205	184	1,078	1,093	44	43	—
24 Mexico	760	767	3	2	757	765	—	—	—
25 Brazil	2,771	2,775	—	3	2,771	2,772	—	—	—
Total	39,445	38,850	2,008	1,789	37,437	37,061	2,044	43	—
Sundries	1,524	1,562	139	139	1,385	1,423	143	155	26
Grand Totals	165,063	164,108	60,837	59,833	104,226	104,275	27,196	27,510	624

¹ 17,352,000 spindles were active.
² Formerly in Sundries.

³ United States—The division between mule and ring and the number of spindles on Egyptian is only approximate. On July 31st, 1930, 26,464,000 spindles were active, and on January 31, 1930, 30,396,000.

World's Cotton Spindles¹

As compiled by leading authorities

COTTON YEARS ENDING JULY 31	United States Bureau of the Census	Shepperson's Cotton Facts	Comtelburo's Cotton Handbook	International Federation of Master Cotton Spinners
1900	105,681,000	—	103,115,000	—
1901	—	107,395,000	102,715,145	—
1902	—	—	111,802,010	—
1903	—	—	112,854,077	—
1904	—	—	114,394,712	—
1905	116,764,438	—	118,254,146	—
1906	120,090,595	—	123,229,202	—
1907	123,332,971	124,320,000	126,594,000	114,096,168
1908	130,054,408	—	129,346,714	128,923,659
1909	133,377,000	—	136,903,457	131,503,062
1910	134,526,000	—	139,608,000	133,384,794
1911	137,792,000	—	141,625,000	137,278,752
1912	140,996,000	—	143,142,000	140,693,103
1913	143,398,000	143,730,000	147,191,000	143,452,659
1914	146,397,000	144,980,000	148,891,000	144,704,012
1915	—	148,226,000	150,737,000	—
1916	—	149,785,000	151,667,000	—
1917	148,500,000	151,200,000	154,310,000	—
1918	150,000,000	149,400,000	—	—
1919	150,000,000	153,505,000	153,799,000	—
1920	154,600,000	151,313,000	156,163,000	154,201,462
1921	153,010,000	147,922,000	157,081,000	152,317,054
1922	157,020,000	157,061,000	158,795,000	154,555,267
1923	157,000,000	156,811,000	162,357,000	156,353,000
1924	159,109,000	157,536,464	163,948,835	158,047,000
1925	161,832,000	158,746,784	166,090,536	161,363,000
1926	164,210,000	161,484,000	171,092,662	163,723,000
1927	164,956,000	164,565,000	173,048,733	164,597,000
1928	165,352,000	165,103,000	174,303,458	165,103,000
1929	164,363,000	164,211,000	167,085,074	165,104,000
1930	164,173,000	164,120,000	166,563,000	164,108,000

¹ For those years for which no statistics are given the authorities here quoted either did not compile estimates or their estimates are not available.

Active Cotton Spindles in the United States, by States

[Cotton Years]

Source: United States Bureau of the Census

	1924-25	1925-26	1926-27	1927-28	1928-29	1929-30
New England States:						
Maine . . .	1,130,728	1,104,054	995,562	999,266	905,762	893,724
New Hampshire . . .	1,245,968	1,227,662	1,179,572	1,121,594	1,162,924	1,043,066
Vermont . . .	144,808	115,702	144,558	116,904	116,904	117,264
Massachusetts . . .	9,766,276	9,488,374	9,231,976	8,319,994	7,256,512	6,521,792
Rhode Island . . .	2,524,842	2,455,046	2,322,420	2,178,312	2,030,600	1,744,524
Connecticut . . .	1,162,820	1,134,834	1,121,372	1,079,172	1,064,810	1,030,920
Total New England States . . .	15,975,442	15,525,672	14,995,460	13,815,242	12,537,512	11,351,290
Other Non-Cotton-growing States: . . .						
New York . . .	873,180	830,652	753,172	750,532	645,718	633,868
New Jersey . . .	480,112	405,324	378,444	353,162	372,708	359,970
Pennsylvania . . .	145,788	141,514	114,334	105,144	84,144	81,576
Maryland . . .	92,252	92,724	85,524	73,704	73,704	73,624
Indiana . . .	81,980	81,984	82,788	84,436	84,652	74,160
Illinois. . .	57,896	56,804	58,920	59,072	59,072	59,072
Other . . .	36,554	41,142	47,360	46,746	18,892	25,640
Total Other Non-Cotton-growing States	1,764,762	1,650,144	1,520,542	1,472,796	1,338,890	1,307,910
Cotton-growing States: . . .						
Virginia . . .	694,354	694,642	691,302	685,756	679,892	679,254
North Carolina . . .	5,909,666	5,943,208	6,094,136	6,132,564	6,129,392	6,047,712
South Carolina . . .	5,295,170	5,347,050	5,376,034	5,472,398	5,562,652	5,636,958
Georgia . . .	2,807,756	2,900,994	2,941,222	3,052,474	3,079,122	3,152,326
Alabama . . .	1,421,884	1,441,522	1,487,556	1,602,534	1,778,436	1,831,150
Mississippi . . .	142,212	140,692	154,312	159,746	147,674	131,284
Tennessee . . .	468,564	546,604	580,776	591,172	610,968	592,674
Kentucky . . .	92,762	93,890	83,610	83,202	84,650	83,046
Louisiana . . .	89,564	95,564	100,764	100,764	87,620	50,000
Texas . . .	225,862	226,272	253,068	252,960	255,200	256,704
Other . . .	144,248	144,012	131,128	148,184	125,028	124,770
Total Cotton-growing States . . .	17,292,042	17,574,450	17,893,908	18,281,754	18,540,634	18,585,878
Total United States	35,032,246	34,750,266	34,409,910	33,569,792	32,417,036	31,245,078

United States Cotton Spinning Spindles in Place, by States

Source: United States Bureau of the Census

COTTON YEAR ENDING JULY 31	Massa- chusetts	Rhode Island	New Hampshire	Maine	Connecticut	Vermont	New York	New Jersey	Penn- sylvania	Maryland
1890 ¹	5,872,852	1,959,294	1,198,643	892,762	939,155	71,591	629,324	374,442	496,551	161,786
1900 ¹	7,932,883	1,976,198	1,249,875	848,377	1,064,016	100,028	764,492	431,730	336,509	154,064
1910	9,703,573	2,412,272	1,440,173	1,037,176	1,282,232	105,184	970,445	463,403	297,799	153,010
1915	10,914,087	2,567,644	1,468,390	1,104,209	1,335,282	136,304	963,748	481,255	259,965	157,380
1920	11,758,613	2,675,892	1,443,776	1,127,138	1,392,547	144,808	997,542	417,837	259,715	145,460
1923	11,951,334	2,876,708	1,449,700	1,140,928	1,366,668	144,808	1,037,418	447,152	203,305	131,104
1927	10,541,966	2,468,790	1,430,238	1,118,316	1,167,240	144,808	872,880	378,444	120,172	92,724
1929	8,586,508	2,290,272	1,390,642	1,059,300	1,105,084	116,904	688,128	381,012	97,572	73,704
1930	7,828,058	2,104,836	1,302,352	1,036,008	1,090,224	117,264	695,628	370,712	97,572	73,624

COTTON YEAR ENDING JULY 31	Alabama	Georgia	Louisiana	Mississippi	North Carolina	South Carolina	Tennessee	Texas	Virginia	United States Total
1890 ¹	79,234	445,452	46,200	57,004	337,786	332,784	97,524	15,000	94,294	14,384,000
1900 ¹	411,328	815,545	55,600	75,122	1,133,432	1,431,349	123,896	48,756	126,827	19,472,000
1910	968,239	1,833,244	87,070	185,280	3,062,061	3,833,901	272,774	108,778	329,174	28,929,093
1915	1,075,859	2,178,573	79,763	184,636	3,915,842	4,710,826	320,052	124,848	513,434	32,840,730
1920	1,215,268	2,542,155	103,128	174,714	4,954,935	4,974,460	399,963	145,054	575,610	35,834,463
1923	1,330,162	2,693,355	100,748	178,508	5,509,183	5,132,364	438,696	176,444	673,306	37,408,689
1927	1,523,490	2,969,332	100,764	175,644	6,198,606	5,402,540	588,318	268,848	711,378	36,695,516
1929	1,804,622	3,125,398	92,820	177,346	6,223,144	5,585,750	616,788	282,324	709,054	34,819,534
1930	1,861,784	3,240,088	92,820	207,088	6,229,382	5,676,388	613,220	282,240	688,326	34,024,866

¹ Reported in operation.

Active Cotton Spindles and Spindle Hours, by Months

[Cotton Years]

Source: United States Bureau of the Census.

MONTH AND STATE	ACTIVE COTTON SPINDLES			ACTIVE SPINDEL HOURS		
	1927-28	1928-29	1929-30	1927-28	1928-29	1929-30
MONTHS						
United States:						
August .	32,292,404	28,217,138	30,230,386	8,971,280,998	7,423,898,281	8,128,961,100
September .	32,398,452	28,209,094	30,035,470	8,775,680,251	6,963,318,068	7,873,219,903
October .	32,535,200	30,302,278	30,107,434	8,727,413,852	8,697,665,960	9,005,849,417
November .	32,314,114	30,595,840	29,739,920	8,689,893,057	8,518,234,852	7,821,025,324
December .	31,722,276	30,653,668	29,047,030	7,859,373,806	7,698,355,544	6,768,132,246
January .	31,716,746	30,753,168	29,177,228	8,262,659,275	9,226,738,123	8,175,688,782
February .	31,726,452	31,008,794	28,920,162	7,970,427,959	8,223,276,151	7,087,326,644
March .	31,432,840	31,102,784	28,862,400	8,310,426,340	8,911,370,783	7,344,275,898
April .	30,950,340	30,911,416	28,851,122	7,414,702,817	8,860,940,306	7,496,690,014
May .	28,948,144	30,937,182	28,357,908	7,966,275,313	9,163,860,055	6,724,550,390
June .	28,627,556	30,631,800	27,659,308	7,251,771,207	8,159,785,059	5,788,849,118
July .	28,159,676	30,397,190	26,457,786	6,251,145,062	7,756,566,009	5,300,655,417
Cotton-growing States:						
August .	17,661,066	17,695,082	17,948,408	5,909,605,312	5,287,146,302	5,552,740,684
September .	17,726,478	17,695,720	18,023,798	5,804,917,183	4,950,168,869	5,496,221,561
October .	17,771,338	17,814,930	17,961,046	5,696,630,787	6,059,758,949	6,235,641,043
November .	17,877,478	17,905,873	18,022,248	5,827,612,493	5,905,806,345	5,602,552,139
December .	17,864,032	17,944,948	17,944,586	5,191,737,189	5,112,537,882	4,784,596,211
January .	17,850,478	17,990,712	17,988,214	5,668,761,973	6,357,596,810	5,881,405,497
February .	17,850,788	18,070,988	17,858,498	5,347,360,931	5,604,206,056	4,992,308,209
March .	17,832,864	18,107,420	17,825,594	5,508,345,109	6,004,085,248	5,153,645,472
April .	17,822,166	17,941,948	17,783,926	5,150,397,972	6,005,785,899	5,329,303,242
May .	17,823,316	18,035,158	17,765,528	5,639,842,672	6,246,563,585	4,776,705,858
June .	17,758,330	17,992,256	17,542,210	5,115,318,154	5,546,678,916	4,164,392,299
July .	17,662,480	18,004,436	17,268,344	4,412,040,774	5,280,235,799	3,890,860,931
New England:						
August .	13,164,900	9,220,666	11,009,780	2,756,697,072	1,905,771,024	2,345,495,842
September .	13,213,546	9,284,005	10,739,764	2,650,777,236	1,792,185,485	2,137,835,991
October .	13,276,956	11,204,956	10,856,996	2,712,392,078	2,366,608,265	2,459,403,120
November .	12,979,026	11,395,480	10,446,048	2,562,235,562	2,354,954,443	1,974,183,768
December .	12,414,362	11,426,678	9,840,310	2,391,433,350	2,358,190,810	1,763,965,246
January .	12,450,628	11,487,426	9,925,934	2,329,093,631	2,592,006,212	2,049,293,448
February .	12,447,363	11,667,226	9,819,972	2,355,336,031	2,374,367,981	1,885,492,757
March .	12,234,014	11,690,670	9,787,972	2,511,674,649	2,647,184,551	1,975,510,752
April .	11,770,268	11,668,304	9,806,246	2,007,546,607	2,595,186,669	1,956,645,616
May .	9,796,654	11,595,556	9,456,018	2,059,498,389	2,659,793,055	1,761,007,251
June .	9,571,110	11,348,894	9,028,546	1,892,171,874	2,364,939,359	1,467,606,716
July .	9,203,946	11,123,854	8,181,206	1,633,348,105	2,240,816,879	1,261,926,381
All other States:						
August .	1,466,438	1,301,390	1,272,188	304,978,614	230,980,865	230,724,574
September .	1,458,428	1,229,366	1,271,908	319,985,832	220,963,714	239,162,351
October .	1,486,906	1,282,392	1,289,392	318,390,987	271,298,746	292,805,254
November .	1,457,610	1,294,486	1,271,624	300,045,002	257,471,064	244,289,417
December .	1,443,882	1,282,042	1,262,134	276,203,267	227,626,852	219,570,789
January .	1,415,640	1,275,030	1,263,080	264,803,671	277,135,101	244,989,837
February .	1,428,296	1,270,580	1,241,692	267,730,997	244,702,114	209,525,678
March .	1,365,962	1,304,694	1,248,834	290,406,582	259,466,984	215,119,674
April .	1,357,906	1,301,164	1,260,950	256,758,238	259,967,738	210,741,156
May .	1,328,174	1,281,912	1,136,362	266,934,607	257,503,415	186,837,281
June .	1,298,116	1,294,868	1,088,552	244,281,188	248,166,784	156,850,103
July .	1,293,250	1,268,900	1,008,236	205,756,183	235,513,331	147,868,105
STATES						
Total . . .	.....	.....	.....	96,451,049,937	99,604,009,191	87,515,224,253
Cotton-growing New England . . .	.....	.....	.....	65,272,570,510	68,360,570,750	61,878,373,146
All other . . .	.....	.....	.....	27,862,204,584	28,252,638,733	23,038,366,888

Spindles in Place in Leading Counties, July 31, 1930

Source: United States Bureau of the Census

COUNTY	Spindles (Number)	COUNTY	Spindles (Number)	COUNTY	Spindles (Number)
Bristol, Mass.	5,634,042	Mecklenburg, N. C.	286,868	Durham, N. C.	174,928
Providence, R. I.	1,501,124	Pickens, S. C.	274,136	Chester, S. C.	164,656
Gaston, N. C.	1,191,186	Richmond, N. C.	272,088	Lancaster, S. C.	163,928
Spartanburg, S. C.	988,108	York, S. C.	269,536	Floyd, Ga.	162,188
Hillsboro, N. H.	870,458	Laurens, S. C.	264,616	Kennebec, Me.	161,328
Greenville, S. C.	765,676	Richland, S. C.	252,792	Hall, Ga.	158,820
Anderson, S. C.	660,096	Hudson, N. J.	234,024	Hampshire, Mass.	157,144
Windham, Conn.	593,300	Cherokee, S. C.	233,764	Polk, Ga.	154,968
Berkshire, Mass.	469,728	Albany, N. Y.	229,960	Alamance, N. C.	150,636
Pittsylvania, Va.	467,440	Rowan, N. C.	224,664	Halifax, N. C.	145,640
New London, Conn.	458,068	Aiken, S. C.	216,064	Spalding, Ga.	137,592
Cabarrus, N. C.	454,365	Rutherford, N. C.	214,660	Davidson, N. C.	133,144
Muscogee, Ga.	446,606	Talladega, Ala.	209,718	Catawba, N. C.	129,178
Hamden, Mass.	425,596	Fulton, Ga.	207,850	Cumberland, Me.	128,640
Androscoggin, Me.	413,056	Bristol, R. I.	206,620	Lincoln, N. C.	127,328
Essex, Mass.	412,252	Rockingham, N. C.	202,828	Iredell, N. C.	127,204
Union, S. C.	347,100	Chambers, Ala.	199,418	Chattanooga, Ga.	122,928
York, Me.	332,984	Cleveland, N. C.	197,486	Caldwell, N. C.	119,360
Middlesex, Mass.	323,552	Troup, Ga.	195,624	Hamilton, Tenn.	116,264
Guilford, N. C.	314,992	Newberry, S. C.	194,232	McDowell, N. C.	115,472
Madison, Ala.	309,672	Knox, Tenn.	187,236	Coweta, Ga.	112,424
Oneida, N. Y.	302,796	Richmond, Ga.	184,718	Robeson, N. C.	109,736
Kent, R. I.	302,616	Upson, Ga.	182,688	Oconee, S. C.	106,828
Worcester, Mass.	299,040	Stanley, N. C.	181,256	Newton, Ga.	104,548
Greenville, S. C.	294,300	Tallapoosa, Ala.	179,908	Vance, N. C.	101,184
Strafford, N. H.	292,440	Calhoun, Ala.	175,236	Whitfield, Ga.	100,792

Active Ring and Mule Spindles

[Cotton Year]

Source: United States Bureau of the Census

STATE	NUMBER OF ACTIVE COTTON SPINDLES							
	1898-99		1908-09		1918-19		1929-30	
	Ring	Mule	Ring	Mule	Ring	Mule	Ring	Mule
United States	13,444,872	5,563,480	23,256,023	4,922,839	31,561,268	3,369,666	30,151,230	1,093,848
Alabama	403,328	8,000	909,587	3,916	1,170,658	3,640	1,830,574	576
Connecticut	607,448	393,126	832,830	446,586	932,813	402,575	772,596	258,324
Georgia	730,619	84,926	1,703,071	71,896	2,451,101	48,230	3,126,762	25,564
Illinois	15,488	16,000	23,240	16,000	45,838	11,705	59,072	—
Indiana	86,168	16,320	115,152	8,952	81,256	—	74,160	—
Kentucky	48,234	18,399	68,124	16,920	76,968	16,520	81,848	—
Louisiana	55,600	—	63,096	4,806	102,944	—	50,000	—
Maine	584,573	256,948	867,364	161,316	1,064,892	42,160	890,412	3,312
Maryland	154,064	—	133,302	—	140,940	—	73,624	—
Massachusetts	5,228,371	2,556,316	7,480,902	2,156,699	9,743,150	1,633,153	6,049,984	471,808
Mississippi	75,122	—	159,104	800	143,874	—	131,284	—
New Hampshire	956,390	287,165	1,169,850	156,050	1,410,947	23,008	1,043,066	—
New Jersey	64,638	367,092	107,381	313,403	204,355	276,012	231,542	128,428
New York	353,132	367,136	547,512	415,329	862,981	113,608	629,908	3,960
North Carolina	1,098,080	35,352	2,886,453	71,782	4,736,288	33,840	6,040,208	7,504
Pennsylvania	182,190	124,447	139,062	139,245	155,228	96,605	79,816	1,760
Rhode Island	940,294	940,328	1,496,434	875,343	2,037,036	634,896	1,564,164	180,360
South Carolina	1,420,597	10,752	3,732,063	28,828	4,907,745	2,460	5,636,958	—
Tennessee	103,116	20,780	237,530	10,000	355,138	13,401	582,674	10,000
Texas	48,756	—	97,628	—	140,054	—	256,704	—
Vermont	56,712	43,316	75,872	15,840	131,024	10,200	117,264	—
Virginia	124,502	2,325	316,970	7,572	552,440	7,050	678,560	694
All other States	107,450	14,752	93,496	1,556	113,598	600	150,050	1,558

Number of Active Ring and Mule Cotton Spindles in the United States, for Selected Years, 1889 to 1930

United States Bureau of the Census

COTTON YEAR ENDING JULY 31	Total	Ring	Mule
1889 ¹	14,188,103	8,824,617	5,363,486
1899 ¹	19,008,352	13,444,872	5,563,480
1904	23,672,064	18,218,800	5,453,264
1909	28,178,862	23,256,023	4,922,839
1914	32,107,572	28,016,390	4,091,182
1917	33,888,835	30,264,074	3,624,761
1920	35,480,953	32,222,325	3,258,628
1921	36,047,367	32,993,331	3,054,036
1922	35,707,738	33,089,667	2,618,071
1923	36,260,001	33,786,015	2,473,986
1924	35,849,338	33,529,602	2,319,736
1925	35,032,246	32,959,642	2,072,604
1926	34,750,266	32,797,096	1,953,170
1927	34,409,910	32,727,676	1,682,234
1928	33,569,792	31,985,350	1,584,442
1929	32,417,036	31,014,402	1,402,634
1930	31,245,078	30,151,230	1,093,848

¹ Includes only spindles in establishments classified as cotton goods.

Spindles in Place and Spindle Hours, by States

[Cotton Years]

Source: United States Bureau of the Census

STATES	COTTON SPINDLES IN PLACE			ACTIVE SPINDLE HOURS		
	1927-28	1928-29	1929-30	1927-28	1928-29	1929-30
Total . . .	35,539,956	34,819,534	34,024,866	96,451,049,937	99,604,009,191	87,515,224,253
Cotton-growing	18,508,322	18,848,216	19,122,496	65,272,570,540	68,360,570,750	61,878,373,146
New England . .	15,463,054	14,548,710	13,478,742	27,862,204,584	28,252,638,733	23,038,366,888
All other . .	1,568,580	1,422,608	1,423,628	3,316,274,813	2,990,799,708	2,598,484,219
Alabama . .	1,627,624	1,804,622	1,861,784	5,213,267,979	6,035,627,661	5,832,930,109
Connecticut . .	1,121,884	1,105,084	1,090,224	2,567,401,089	2,735,713,894	2,219,249,041
Georgia . .	3,080,568	3,125,398	3,240,088	10,734,436,366	11,318,778,500	10,095,503,127
Maine . .	1,106,036	1,059,300	1,036,008	1,990,658,147	1,964,361,222	1,899,024,606
Massachusetts . .	9,349,994	8,586,508	7,828,058	15,785,208,745	15,697,587,043	13,212,095,869
New Hampshire . .	1,414,518	1,390,642	1,302,352	2,591,268,900	2,501,304,177	2,264,661,322
New Jersey . .	378,936	381,012	370,712	730,303,556	643,543,451	619,642,187
New York . .	802,304	688,128	695,628	1,704,368,233	1,559,841,908	1,257,136,721
North Carolina . .	6,191,580	6,223,144	6,229,382	22,015,418,737	22,143,487,983	19,207,969,247
Pennsylvania . .	114,164	97,572	97,572	220,769,310	185,031,492	177,493,982
Rhode Island . .	2,325,814	2,290,272	2,104,836	4,633,455,490	5,049,221,697	3,187,756,244
South Carolina . .	5,491,604	5,385,750	5,676,388	21,101,986,183	22,559,184,494	20,609,683,946
Tennessee . .	602,228	616,788	613,220	2,123,760,500	2,350,075,758	2,307,527,943
Texas . .	282,196	282,324	282,240	835,146,370	797,433,176	677,333,580
Virginia . .	709,056	709,054	688,326	1,650,938,872	1,584,669,104	1,825,598,609
All other States . .	941,450	873,936	908,048	2,513,661,460	2,478,147,631	2,121,617,720

Cotton Looms in the United States

[Calendar Years]

Source: United States Bureau of the Census

Type	New England		Cotton Growing		All Other		United States	
	1927	1929	1927	1929	1927	1929	1927	1929
Total	341,560	273,341	327,639	351,795	45,847	33,815	715,046	658,951
Plain total	248,360	190,700	277,408	297,164	30,269	23,170	556,037	511,034
Non-Automatic	103,714	79,570	36,317	59,735	5,718	5,474	145,749	144,779
2-harness	54,722	35,844	19,411	32,513	3,243	1,943	77,376	70,300
2-harness, box	9,685	6,121	8,731	7,241	357	1,026	18,773	14,388
More than 2 harness	34,983	35,412	4,277	17,268	763	1,083	40,023	53,763
More than 2 harness, box	4,324	2,193	3,898	2,713	1,355	1,422	9,577	6,328
Automatic	144,646	111,130	241,091	237,429	24,351	17,696	410,288	366,255
2-harness	76,164	57,030	159,162	161,874	12,445	8,222	247,771	227,126
2-harness, box	9,849	5,659	10,195	8,274	874	359	20,918	14,292
More than 2 harness	51,536	45,871	64,624	59,415	11,129	8,961	127,289	114,247
More than 2 harness, box	7,097	2,570	7,110	7,866	103	154	14,310	10,590
Fancy, total	87,239	76,932	48,910	49,290	15,087	10,445	151,326	136,667
Non-Automatic	63,205	52,101	15,062	16,072	8,055	6,538	86,412	74,711
Dobby	35,737	31,229	4,189	6,466	813	883	40,739	38,579
Dobby, box	17,283	13,118	9,037	7,741	2,029	1,803	28,349	22,662
Jacquard	4,429	3,355	953	882	1,944	1,450	7,326	5,687
Jacquard, box	5,846	4,399	883	983	3,269	2,402	9,998	7,784
Automatic	24,034	24,831	33,848	33,218	7,032	3,907	64,914	61,956
Dobby	16,359	13,863	18,781	19,035	5,966	2,476	41,106	35,374
Dobby, box	3,966	5,807	10,846	9,689	620	420	15,432	15,916
Jacquard	1,622	1,995	2,351	2,518	141	194	4,114	4,707
Jacquard, box	2,087	3,166	1,870	1,976	305	817	4,262	5,959
Unclassified	5,790	5,700	1,316	—	236	—	7,342	5,700
Webbing and ribbon looms	81	9	5	5	5,341	255	341	5,550

Active Looms in the Cotton Goods Industry by States for 1929

[Calendar Year]

Source: United States Bureau of the Census

	United States	Alabama	Conn.	Georgia	Indiana	Kentucky	Maine	Massachusetts	Maryland	Mississippi	New Hampshire
Total	621,361	32,925	19,068	57,011	1,812	1,470	20,770	1,136	136,444	3,457	26,605
Plain, total											
Non-automatic	483,653	31,327	14,187	49,108	1,812	1,384	17,217	951	85,210	2,990	22,208
2-harness	126,984	1,373	4,884	11,445	—	1,037	1,129	641	41,593	216	2,528
2-harness, box	61,869	1,373	1,409	6,672	—	1,037	998	606	17,013	168	18
More than 2-harness	11,423	—	96	598	—	—	128	—	3,103	48	490
More than 2-harness, box	48,911	—	3,167	3,886	—	—	—	16	21,394	—	1,014
Automatic	4,781	—	212	289	—	—	3	19	83	—	1,006
2-harness	356,669	30,054	9,303	37,663	1,812	347	16,088	310	43,617	2,774	19,680
2-harness, box	221,884	14,800	3,245	24,120	938	347	6,246	254	28,686	1,600	4,316
More than 2-harness	13,340	97	—	462	250	—	2,180	8	1,841	—	804
More than 2-harness, box	111,136	14,909	6,058	11,622	624	—	7,322	48	13,012	476	12,537
Fancy total	126,658	1,496	4,881	5,902	—	—	—	86	3,553	74	45,528
Non-automatic	66,636	597	3,642	1,891	—	—	—	1,508	74	32,733	85
Dobby	34,245	372	2,502	926	—	—	—	1,085	11	20,892	8
Jacquard	21,091	145	794	563	—	—	—	351	—	7,623	—
Jacquard, box	5,246	80	246	260	—	—	48	—	2,418	77	—
Automatic	6,054	—	100	142	—	—	24	63	1,860	—	568
Dobby	60,022	899	1,239	4,011	—	—	—	86	2,045	—	12,735
Jacquard, box	34,457	169	903	3,423	—	—	—	86	2,266	—	382
Jacquard	15,467	486	316	426	—	—	—	817	—	8,150	342
Jacquard, box	4,506	58	20	94	—	—	—	626	—	2,529	40
Unclassified	5,700	—	2	—	—	—	—	—	—	5,700	—
Webbing and ribbon looms	5,350	—	—	—	—	—	—	111	6	—	3

Active Looms in the Cotton Goods Industry by States for 1929—(Concluded)

[Calendar Year]

Source: United States Bureau of the Census

	New Jersey	New York	North Carolina	Pennsylvania	Rhode Island	South Carolina	Tennessee	Texas	Vermont	Virginia	Other States
Total	4,118	9,894	83,982	8,420	40,127	132,772	8,653	5,606	2,462	19,466	5,163
Plain, total		1,725	8,124	61,681	3,818	29,198	119,092	6,313	5,432	2,206	14,737
Non-automatic		549	193	12,446	1,864	12,611	26,244	2,298	2,097	2,054	4,803
2-harness		193	167	3,639	189	8,733	15,167	2,298	1,597	—	1,292
2-harness, box		198	10	2,026	348	13	3,475	—	—	—	592
More than 2-harness		94	16	5,065	425	3,861	7,119	—	500	2,054	400
More than 2-harness, box		64	—	1,716	902	483	—	—	—	—	300
Automatic		1,176	7,931	49,235	1,984	16,587	92,848	4,015	3,335	152	14,247
2-harness		6	3,734	26,652	1,509	11,611	77,875	2,111	1,961	152	10,645
2-harness, box		101	—	3,385	—	—	902	729	313	—	2,268
More than 2-harness		1,057	4,125	15,462	405	4,976	12,718	1,175	876	—	1,299
More than 2-harness, box		12	72	3,736	70	—	1,353	185	—	35	—
Fancy total		2,393	1,770	19,927	4,558	10,929	13,678	2,340	162	256	3,979
Non-automatic		407	1,004	5,146	3,774	5,504	6,041	440	15	256	1,023
Dobby		50	657	1,516	71	2,741	2,662	188	—	256	276
Dobby, box		46	45	2,879	1,277	1,560	3,246	252	15	—	480
Jacquard		84	156	239	1,049	414	105	—	—	—	65
Jacquard, box		227	146	512	1,377	789	28	—	—	—	202
Automatic		1,986	766	14,781	784	5,425	7,637	1,900	147	—	2,956
Dobby		1,652	710	7,008	18	1,990	5,765	1,900	147	—	306
Dobby, box		12	8	4,567	240	1,553	1,598	—	—	—	2,290
Jacquard		48	—	1,760	71	458	274	—	—	—	280
Jacquard, box		322	—	1,446	455	1,424	—	—	—	—	80
Unclassified		—	—	—	—	—	—	—	—	—	—
Webbing and ribbon looms		—	—	—	2,374	14	—	—	—	—	750
								—	12	—	75

Idle Looms in the Cotton Goods Industry by States for 1929

[Calendar Year]

Source: United States Bureau of the Census

The World's Cotton Mills, 1930

Source: Comtelburo's Cotton Handbook

COUNTRY		Mills	Spindles	Looms	Consumption (Bales)	Hands Employed
Great Britain	1930	1,734	57,711,635	703,878	2,621,731	610,000
United States, North	1929	620	16,787,099	367,461	2,255,403	230,000
United States, South	1930	957	18,875,557	352,716	4,950,854	186,000
Canada	1929	45	1,230,734	26,764	196,854	28,500
Germany	1930	300	11,260,000	250,000	1,795,949	100,000
Russia	1929	203	6,217,000	159,100	929,174	498,930
Poland	1930	66	1,642,167	42,240	292,000	62,000
Finland	1930	6	266,900	6,975	32,000	7,366
Estonia	1930	4	215,000	3,500	24,000	5,500
Latvia	1930	7	73,504	1,059	13,852	3,100
France	1930	595	10,200,000	200,000	1,215,000	200,000
Hungary	1930	40	200,000	12,000	55,000	13,000
Austria	1930	80	976,740	15,900	136,000	16,000
Czechoslovakia	1930	86	3,655,000	110,000	510,000	120,000
Jugo-Slavia	1930	42	130,000	9,000	40,000	15,000
Switzerland	1930	64	1,531,344	26,872	103,094	28,000
Italy	1930	700	5,450,000	150,000	1,050,000	250,000
Spain	1930	400	2,100,000	75,000	400,000	130,000
Portugal	1930	52	503,000	22,000	60,000	30,000
Belgium	1930	228	2,156,500	54,385	345,000	38,500
Holland	1930	107	1,168,000	54,300	180,000	41,713
Sweden	1930	33	627,000	16,000	93,000	16,000
Norway	1930	15	57,218	2,999	8,000	2,800
Denmark	1930	27	98,460	5,891	22,959	3,337
Turkey (Eu.)	1929	1	10,000	—	3,500	—
Bulgaria	1929	21	20,450	1,277	5,500	1,000
Cyprus	1930	1	2,000	—	500	65
Greece	1930	85	225,000	2,650	40,000	12,500
Roumania	1930	2	33,300	5,000	48,500	6,500
Egypt	1930	1	57,000	850	11,200	1,500
Asia Minor	1927	6	50,000	3,325	36,750	3,030
India	1929	334	8,807,064	174,922	2,161,166	346,925
China	1930	120	3,664,120	29,582	2,179,739	241,552
Japan	1930	258	6,836,516	77,898	2,951,279	159,692
Korea	1930	5	31,200	1,766	33,932	3,803
Indo-China	1925	5	90,000	500	45,000	3,000
Brazil	1929	351	2,552,079	79,249	453,985	125,028
Argentina	1929	5	40,500	900	25,000	2,500
Chile	1916	3	5,000	400	—	454
Peru	1928	11	76,796	3,049	12,500	3,100
Colombia	1928	16	39,640	1,927	65,000	3,285
Educador	1928	12	38,874	836	12,000	2,542
Venezuela	1928	8	48,800	1,900	29,000	6,000
Guatemala	1929	1	4,000	185	5,984	500
Mexico	1930	117	791,613	29,992	160,000	34,000
Bolivia	1929	2	6,000	446	—	—
Total (estimated)		7,776	166,562,810	3,084,694	25,610,405	3,592,722

Indian Yarn Production

[In pounds]

Source: Department of Statistics, India

FISCAL YEARS ENDING MARCH 31	Counts 1-12		Counts 13-15		Counts 16-20		Counts 16-20		Counts 21-22		Counts 23-32		Total All Counts
	Counts 1-12	Counts 13-15	Counts 16-20	Counts 16-20	Counts 16-20	Counts 16-20	Counts 21-22	Counts 21-22	Counts 21-22	Counts 21-22	Counts 23-32	Counts over 32	
1911-12	190,645,627	47,423,898	73,994,852	73,994,852	208,646,131	87,077,316	16,535,131	16,535,131	16,535,131	16,535,131	624,322,955	624,322,955	
1912-13	239,721,030	51,689,093	76,859,501	76,859,501	207,838,060	94,751,753	16,901,358	16,901,358	16,901,358	16,901,358	687,760,795	687,760,795	
1913-14	233,643,390	49,224,504	78,274,111	78,274,111	211,360,899	95,612,210	14,019,139	14,019,139	14,019,139	14,019,139	682,134,253	682,134,253	
1914-15	220,194,466	54,167,997	76,490,272	76,490,272	198,116,252	89,770,944	12,769,510	12,769,510	12,769,510	12,769,510	651,509,441	651,509,441	
1915-16	260,337,274	56,961,454	84,882,554	84,882,554	213,351,059	93,935,172	12,305,584	12,305,584	12,305,584	12,305,584	721,773,097	721,773,097	
1916-17	219,750,231	57,248,165	85,604,890	85,604,890	200,028,983	100,319,084	17,808,941	17,808,941	17,808,941	17,808,941	680,760,249	680,760,249	
1917-18	193,374,553	63,972,185	78,953,407	78,953,407	192,777,637	112,178,003	19,096,551	19,096,551	19,096,551	19,096,551	660,352,336	660,352,336	
1918-19	161,285,869	62,346,415	76,268,029	76,268,029	184,250,594	116,623,790	14,034,609	14,034,609	14,034,609	14,034,609	614,809,306	614,809,306	
1919-20	174,732,119	55,549,634	82,021,768	82,021,768	205,969,704	104,239,184	12,972,539	12,972,539	12,972,539	12,972,539	635,484,948	635,484,948	
1920-21	175,376,300	63,323,383	84,695,402	84,695,402	213,209,760	114,152,207	8,890,653	8,890,653	8,890,653	8,890,653	659,647,705	659,647,705	
1921-22	197,376,737	68,290,013	82,730,668	82,730,668	210,635,692	124,443,961	9,493,469	9,493,469	9,493,469	9,493,469	692,970,540	692,970,540	
1922-23	191,167,444	70,430,162	83,620,475	83,620,475	227,658,639	123,667,661	9,090,148	9,090,148	9,090,148	9,090,148	705,634,529	705,634,529	
1923-24	143,895,315	71,194,892	77,639,761	77,639,761	187,239,780	115,601,798	12,512,473	12,512,473	12,512,473	12,512,473	608,114,019	608,114,019	
1924-25	165,030,312	78,205,247	226,574,692	226,574,692	94,823,239	138,667,812	16,088,692	16,088,692	16,088,692	16,088,692	719,389,994	719,389,994	
1925-26	160,274,343	75,517,152	208,956,741	208,956,741	103,082,071	134,082,071	15,279,250	15,279,250	15,279,250	15,279,250	684,108,400	684,108,400	
1926-27	190,259,517	82,584,545	242,836,793	242,836,793	103,644,305	157,508,417	26,346,464	26,346,464	26,346,464	26,346,464	803,180,041	803,180,041	
1927-28	169,442,894	82,618,171	242,739,012	242,739,012	112,238,962	165,767,410	29,963,681	29,963,681	29,963,681	29,963,681	802,770,130	802,770,130	
1928-29	129,612,450	64,277,934	188,133,230	188,133,230	89,852,593	140,108,942	30,568,946	30,568,946	30,568,946	30,568,946	642,554,095	642,554,095	
1929-30	169,707,913	85,496,452	238,095,353	238,095,353	117,432,808	174,438,890	41,527,716	41,527,716	41,527,716	41,527,716	826,699,132	826,699,132	

Japanese Cotton Industry

[Calendar Years]

Source: Japan Cotton Spinners' Association

YEARS	Number of Mills	CAPITAL		Production of Cotton Piece-goods (Yards)	Yarn Consumed (Pounds)	Total Spindles	Twisting Spindles	Average Working Looms	Total Looms
		Authorized (Yen) ²	Paid-up (Yen) ²						
1908	125	85,511,300	58,397,385	147,443,838	47,676,427	1,795,879	177,860	9,496	11,146
1909	134	75,871,800	68,501,000	181,976,972	57,388,586	1,954,892	227,574	11,585	13,813
1910	136	94,271,300	67,516,013	226,313,958	71,197,654	2,099,764	282,186	14,911	17,702
1911	139	89,160,150	64,374,164	289,039,671	82,493,136	2,170,796	286,410	17,884	20,431
1912	147	105,136,400	72,366,495	342,584,684	93,592,721	2,176,748	317,324	20,208	21,898
1913	152	113,036,401	86,444,059	416,725,357	111,159,616	2,414,499	320,912	24,799	24,224
1914	157	109,676,400	85,820,424	504,901,674	123,863,966	2,657,174	348,766	24,911	25,443
1915	161	110,176,400	86,011,677	502,076,621	124,632,631	2,807,514	355,318	27,687	30,068
1916	161	137,290,150	99,641,818	560,181,108	136,413,408	2,875,904	370,681	30,110	31,295
1917	170	162,830,150	115,623,020	594,649,419	142,770,758	3,060,478	383,458	31,920	36,181
1918	177	192,877,650	138,494,565	656,935,420	160,301,569	3,227,678	384,872	36,395	40,391
1919	190	221,927,650	165,758,695	738,955,766	179,788,560	3,488,262	410,690	42,469	44,401
1920	198	394,327,650	276,535,896	762,037,360	189,651,320	3,813,580	466,460	44,635	50,588
1921	217	429,577,650	295,648,358	700,697,985	186,427,501	4,161,126	538,384	46,609	54,994
1922	235	462,107,650	317,148,075	869,327,652	214,327,505	4,517,612	602,032	51,033	60,765
1923	228	463,977,650	323,787,485	1,000,708,890	249,979,975	4,197,966	501,031	52,972	61,421
1924	232	512,362,500	349,820,568	1,030,852,558	241,019,095	4,870,232	676,995	56,351	64,225
1925	230	509,212,500	351,804,817	1,179,524,733	274,472,668	5,185,632	715,946	62,976	68,160
1926	234	497,087,500	360,195,247	1,277,726,954	294,334,545	5,410,752	785,002	65,699	71,719
1927	233	468,305,000	351,809,272	1,294,668,822	293,166,913	5,766,584	770,690	66,733	71,794
1928	245	502,346,250	379,517,127	1,382,034,413	303,008,225	6,286,642	795,688	70,606	76,727
1929	247	510,846,250	389,515,222	1,538,249,015	336,276,152	6,697,874	800,808	68,640	73,773
1930	251	513,539,750	387,866,487	1,388,423,325	269,592,495	7,045,029	793,510	65,169	75,657

¹Data for Association Mills only. ²Yen = \$0.4985 U.S.

Japanese Yarn Production

[Calendar Years]

Source: Japan Cotton Spinners' Association

STATISTICAL

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YEARS	Average Working Spindles	PRODUCTION OF COTTON YARN				DAILY OPERATIVES (AVERAGE)			WAGES (AVERAGE DAILY)			
		Coarse Yarn (Bales) ¹	Medium Yarn (Bales) ¹	Fine Yarn (Bales) ¹	Doubling (Bales) ¹	Grassed (Bales) ¹	Total (Bales) ¹	Males	Females	Total	Males (Rin) ²	
1908	1,367,631	738,659.0	54,171.0	—	59,555.5	26,185.0	878,570.5	15,049	59,154	74,203	410	250
1909	1,569,080	841,778.0	78,975.0	7.0	71,651.0	32,833.5	1,025,244.5	16,844	66,664	83,508	425	267
1910	1,741,168	964,675.0	63,637.5	1,814.5	74,436.5	30,217.0	1,134,780.5	18,266	75,614	93,880	434	272
1911	1,784,064	934,713.0	82,739.5	4,627.5	74,536.0	32,651.0	1,129,267.0	17,628	74,868	92,496	450	288
1912	1,984,191	1,090,172.5	119,893.5	6,722.5	95,683.5	39,737.5	1,352,209.5	18,421	80,779	99,200	467	305
1913	2,167,926	1,212,001.5	142,409.0	8,666.5	109,996.0	44,909.0	1,517,982.0	19,707	88,038	107,745	485	320
1914	2,369,801	1,350,850.5	149,498.0	7,760.5	119,790.0	38,282.0	1,666,181.0	22,163	92,251	114,414	491	319
1915	2,463,376	1,360,259.0	187,761.0	8,096.5	130,536.5	33,611.5	1,720,264.5	22,674	92,500	115,174	495	322
1916	2,757,299	1,458,617.0	259,840.0	10,153.5	155,483.5	41,485.0	1,925,579.0	23,845	97,279	121,124	500	334
1917	2,850,637	1,421,978.0	287,259.5	7,730.5	164,850.0	42,023.0	1,923,841.5	25,518	97,648	123,166	545	371
1918	2,936,495	1,245,723.5	366,868.5	7,427.5	138,286.5	45,560.0	1,803,866.0	26,790	95,069	121,859	686	476
1919	3,179,568	1,285,926.0	422,967.5	9,202.0	156,542.5	46,144.5	1,920,782.5	30,935	101,399	132,334	1,116	870
1920	3,191,753	1,222,525.5	401,868.5	7,477.5	146,562.5	38,542.0	1,816,976.0	33,966	109,782	143,748	1,567	1,196
1921	3,162,353	1,276,600.5	346,148.5	6,199.5	141,136.0	41,265.5	1,911,350.0	34,904	105,704	140,608	1,463	1,134
1922	3,967,265	1,557,052.0	429,484.5	7,167.5	185,761.5	48,780.5	2,228,246.0	41,009	132,442	173,451	1,544	1,243
1923	4,079,855	1,484,705.5	449,274.5	10,175.0	177,472.5	49,525.5	2,171,153.0	38,159	121,811	159,970	1,483	1,180
1924	4,115,692	1,320,986.5	499,037.5	13,497.0	184,539.0	54,757.0	2,072,817.5	36,015	117,307	153,322	1,524	1,206
1925	4,669,753	1,541,615.5	587,005.5	16,145.0	239,079.5	62,938.0	2,436,783.5	39,221	134,383	173,604	1,548	1,224
1926	5,002,932	1,629,698.5	637,499.5	16,164.0	248,847.0	75,537.0	2,007,746.5	40,735	141,787	182,522	—	—
1927	4,831,429	1,570,910.0	643,325.5	20,618.0	224,903.5	70,935.5	2,530,692.5	38,762	131,384	170,146	—	—
1928	4,843,592	1,414,339.5	737,088.5	20,954.0	210,739.5	68,740.5	2,451,862.0	36,355	117,687	154,052	—	—
1929	5,784,070	1,666,471.0	814,018.5	30,964.0	207,545.0	73,587.5	2,792,586.0	35,223	124,454	159,677	—	—
1930	5,897,894	1,533,004.0	736,493.5	32,625.0	142,027.5	60,549.0	2,532,699.0	30,202	108,982	139,184	—	—

¹ Bales of 400 pounds each.

² Rin = 1/100 yen = \$0.00049 U. S.

Rayon Industry of United States

Source: United States Bureau of Census

	1927	1929
Number of establishments	19	29
Wage earners (average for the year) ¹	26,341	39,106
Wages	\$28,649,441	\$44,697,128
Cost of materials, containers for products, fuel and purchased electric energy	\$25,747,792	\$33,330,253
Products, aggregate value ²	\$109,888,336	\$149,546,107
Rayon yarns:		
Total pounds	75,555,439	116,632,378
Total value	\$106,468,752	\$140,846,595
Finer than 125 denier:		
Pounds	— ³	12,813,845
Value	— ³	\$21,176,640
125 to 150 denier:		
Pounds	— ³	85,528,539
Value	— ³	\$101,494,715
Heavier than 150 denier:		
Pounds	— ³	18,289,994
Value	— ³	\$18,175,240
Allied products (sheets, waste, etc.), value	\$3,419,584	\$8,699,512
Value added by manufacture ⁴	\$84,140,544	\$116,215,854

¹ Not including salaried employees. The average number of wage earners is based on the numbers reported for the several months of the year. This average somewhat exceeds the number that would have been required for the work performed if all had been continuously employed throughout the year, because of the fact that manufacturers report the numbers employed on or about the 15th day of each month, as shown by the payrolls, usually taking no account of the possibility that some or all of the wage earners may have been on part time or for some other reason may not actually have worked the entire month. Thus in some cases the number reported for a given month exceeds the average for that month.

² Manufacturers' profits can not be calculated from the census figures because no data are collected for certain expense items, such as interest on investment, rent, depreciation, taxes, insurance and advertising.

³ Not reported separately.

⁴ Value of products less cost of materials, containers for products, fuel and purchased electric current.

United States Production and Imports of Rayon

[Calendar Years]

Source: Silk Association of America

YEAR	Production (Pounds)	Imports (Pounds)	Import Valuation (Per Pound)
1913	1,566,000	2,305,000	—
1914	2,445,000	2,923,000	\$1.25
1915	4,111,000	2,718,000	1.21
1916	4,744,000	864,000	1.95
1917	6,687,000	552,000	2.55
1918	5,828,000	93,099	2.69
1919	8,000,000	1,148,513	4.06
1920	8,000,000	1,846,875	3.44
1921	15,000,000	3,667,180	1.66
1922	24,406,400	2,087,775	1.87
1923	35,380,500	3,906,037	1.73
1924	37,719,600	1,711,987	1.34
1925	52,000,000	7,000,521	1.16
1926	62,816,910	10,221,396	.88
1927	75,000,000	16,211,166	.84
1928	98,600,000	12,742,418	.86
1929	123,130,000	15,902,860	.76
1930	130,396,000	5,778,081	.80

World Rayon Production by Countries

[Calendar Years]

Source: United States Department of Commerce and "Textile World"

COUNTRY	1926 (Pounds)	1927 (Pounds)	1928 (Pounds)	1929 ¹ (Pounds)	1930 ¹ (Pounds)
United States .	62,575,000	75,050,000	97,700,000	123,130,000	130,396,000
Italy .	35,000,000	36,000,000	47,000,000	59,000,000	66,000,000
Great Britain .	25,500,000	38,803,000	52,000,000	53,100,000	50,600,000
Germany .	26,000,000	31,000,000	41,000,000	45,000,000	44,000,000
France .	17,500,000	21,000,000	30,000,000	37,000,000	40,810,000
Belgium .	13,100,000	13,500,000	15,000,000	15,000,000	12,320,000
Switzerland .	8,000,000	10,340,000	12,000,000	12,250,000	11,220,000
Holland .	13,500,000	16,500,000	16,500,000	20,000,000	17,600,000
Austria .	3,500,000	3,500,000	4,000,000	3,620,000	2,090,000
Poland .	2,000,000	4,000,000	5,000,000	5,435,000	5,500,000
Czechoslovakia .	2,800,000	3,500,000	3,500,000	4,250,000	3,960,000
Japan .	5,500,000	8,000,000	12,000,000	18,000,000	26,400,000
Hungary .	— ²	— ²	600,000	670,000	550,000
Spain .	300,000	1,000,000	2,500,000	2,000,000	2,860,000
Sweden .	— ²	— ²	— ²	— ²	— ²
Canada .	2,250,000	2,600,000	3,500,000	3,750,000	5,060,000
Brazil .	— ²	— ²	750,000	950,000	— ²
Other Countries .	1,555,000	2,075,000	1,500,000	1,000,000	572,000
Total . .	219,080,000	266,868,000	344,550,000	404,155,000	419,911,000

¹ Estimated.² Included in all others.

List Prices of Rayon Yarn

[Quotations are for 24 filament, 150 denier, A quality, bleached]

1909	\$2.15
1910	1.90
1911	1.80
1912	1.80
1913	1.80
April 1, 1914, to September, 1915.	2.00
September, 1915, to January, 1916	2.50
January, 1916, to September, 1916	3.00
September, 1916, to December, 1916	3.25
December, 1916, to May, 1917	3.50
May, 1917, to October, 1917	3.75
October, 1917, to June, 1918	4.25
June, 1918, to September, 1919	4.50
September, 1919, to February, 1920	5.25
February, 1920, to June, 1920	5.95
June, 1920, to September, 1920	4.95
September, 1920, to October, 1920	3.95
October, 1920, to September, 1921	2.50
September, 1921, to February, 1924	2.75
February, 1924, to July, 1926	2.00
July, 1926, to November, 1926	1.65
November, 1926, to March, 1927	1.45
March, 1927, to February 25, 1929	1.50
February 25, 1929, to June 18, 1929	1.30
June 18, 1929, to July 22, 1930	1.15
July 22, 1930, to January 9, 1931 . . . . .	.95
*January 9, 1931, ————— . . . . .	.75

*Quotation for 40 filament, 150 denier, first grade.

List Prices of Celanese Yarn

[Quotations are for 40 filament, 150 denier]

October, 1924, to August 10, 1928	\$3.00
August 10, 1928, to January 23, 1930	1.90
January 23, 1930, —————	1.65

Legal Working Hours for Women

Source: United States Department of Labor

STATE	DAILY	WEEKLY
Alabama	No limitation	No limitation
Arizona	8	48
Arkansas	9	54
California	8	48
Colorado	8	56
Connecticut	10	55
Delaware	10	55
District of Columbia	8	48
Florida	No limitation	No limitation
Georgia	10	60
Idaho	9	63
Illinois	10	70
Indiana	No limitation	No limitation
Iowa	No limitation	No limitation
Kansas	9	49½
Kentucky	10	60
Louisiana	9	54
Maine	9	54
Maryland	10	60
Massachusetts	9	48
Michigan	10	54
Minnesota	9½	54
Mississippi	10	55
Missouri	9	54
Montana	8	56
Nebraska	9	54
Nevada	8	56
New Hampshire	10¼	54
New Jersey	10	54
New Mexico	8	56
New York ¹	8	48
North Carolina	11	60
North Dakota	8½	48
Ohio	9	50
Oklahoma	9	54
Oregon	9	48
Pennsylvania	10	54
Rhode Island	10	54
South Carolina	10	55
South Dakota	10	54
Tennessee	10½	57
Texas	9	54
Utah	8	48
Vermont	10½	56
Virginia	10	60
Washington	8	56
West Virginia	No limitation	No limitation
Wisconsin	9	50
Wyoming	8½	56

NOTE.—The above table applies to women employed in mechanical and manufacturing establishments. Many states provide for overtime in seasonal industries.

¹ Certain exceptions on hours of labor.

Growth of the Cotton Manufacturing Industry of the United States*

	1904	1909	1914	1919	1921	1923	1925	1927
Invested capital.	\$613,110,655	\$822,237,529	\$899,764,682	\$1,914,919,506	Not collected	Not collected	Not collected	Not collected
Number of active producing spindles	23,155,613	27,395,800	30,815,731	33,718,953	36,047,367 ¹	36,260,001 ¹	35,032,246	34,409,910
Number of concerns	1,154	1,324	1,328	1,496	1,527	1,642	1,638	1,610
Number of employees.	313,874	378,880	393,404	446,852	425,817	495,197	468,352	489,036
Value of product calendar year	\$450,467,704	\$628,391,813	\$701,300,933	\$2,195,565,881	\$1,330,263,117	\$2,010,141,147	\$1,819,886,390	\$1,659,518,736
Consumption of raw cotton and linters (in 500-pound bales). (Cotton year.)	4,523,208	4,759,364	6,087,338	6,807,817	5,408,979	7,312,201	6,882,265	7,995,668
Value of total exports of cotton manufacturers. ²	\$22,403,713	\$31,878,566	\$51,467,233	\$273,115,704	\$117,294,542	\$138,045,354	\$148,239,365	\$133,186,101
Value of total imports of cotton manufacturers. ²	49,524,246	63,231,968	70,704,828	52,632,110	75,430,495	100,153,179	79,271,008	66,197,850
Wage earners per establishment	274	286	296	299	278	302	285	304
Active spindles (thousands).	23,195	27,426	30,915	33,796	33,071	36,260	35,032	34,410
Active spindles per establishment (thousands).	20,100	20,715	23,279	22,591	21,658	22,069	21,381	21,372
Looms	540,910	632,903	672,754	692,169	Not collected	Not collected	Not collected	715,046
Looms per (establishment).	468	477	506	462	Not collected	Not collected	Not collected	444

¹ Total active cotton-producing spindles whether in cotton manufacturing industry or not.² Fiscal years ended June 30 up to and including 1914; calendar years thereafter.

* 1929 Figures not available.

Summary of the Cotton Manufacturing Industry for New England, 1927*

[Calendar Year]

Source: United States Bureau of the Census, Department of Commerce

	Maine	New Hampshire ¹	Vermont	Massachusetts	Rhode Island	Connecticut	Total
Number of establishments	17	22	4	210	126	59	438
Persons engaged	10,410	15,508	1,031	96,088	32,652	16,795	172,484
Proprietors and firm members	—	8	—	32	35	3	78
Salaried employees	215	526	23	2,643	1,377	961	5,745
Wage earners (average number)	10,195	14,974	1,008	93,413	31,240	15,831	166,661
Salaries and wages	\$10,512,868	\$16,829,673	\$1,120,351	\$99,040,702	\$36,880,021	\$19,085,292	\$183,468,907
Salaries	731,738	1,446,457	65,724	8,466,477	4,214,977	2,445,800	17,371,173
Wages	9,781,130	15,383,216	1,054,627	90,574,225	32,665,044	16,639,492	166,097,734
Paid for contract work	247,745	1,294,127	—	2,450,370	643,813	646,558	5,282,613
Cost of materials, fuel, and power	17,350,564	27,187,700	1,361,130	150,813,954	55,335,456	32,665,935	284,714,739
Value of product	34,414,143	58,709,428	3,145,790	294,890,690	109,578,061	64,112,866	564,850,978
Value added by manufacture ²	17,063,579	31,521,728	1,784,660	144,076,736	54,242,605	31,446,931	280,136,239

¹ Excludes statistics for one establishment to avoid disclosure of its operations.² Value of products less cost of materials, fuel, and power.

* 1929 Figures not available.

Statistical History of the American Cotton Industry

YEAR	Number of Establishments	Value of Products (Thousands)	Employees	ACTIVE SPINDLES (Thousands)		Looms	Imports of Cotton Manufactures (Thousands)
				Northern States	United States		
1	1790	—	—	—	—	—	—
2	1800	—	—	—	—	—	—
3	1810	—	—	—	—	—	—
4	1820	—	—	—	—	—	—
5	1830	—	—	—	—	—	\$7,865
6	1840	1,240	\$46,350	72,119	2,104	2,285	6,504
7	1850	1,094	61,869	92,286	3,733	3,998	20,781
8	1860	1,091	115,682	122,028	4,912	5,236	126,313
9	1870	956	177,490	135,369	6,804	7,132	33,216
10	1871	—	—	—	—	—	23,380
11	1872	—	—	—	—	—	—
12	1873	—	—	—	—	—	—
13	1874	—	—	—	—	—	—
14	1875	—	—	—	—	—	—
15	1876	—	—	—	—	—	—
16	1877	—	—	—	—	—	—
17	1878	—	—	—	—	—	—
18	1879	756	192,090	174,659	—	—	—
19	1880	—	—	—	10,092	10,653	225,759
20	1881	—	—	—	—	—	—
21	1882	—	—	—	—	—	34,351
22	1883	—	—	—	11,800	12,660	36,854
23	1884	—	—	—	12,250	13,300	29,075
24	1885	—	—	—	12,250	13,375	27,197
25	1886	—	—	—	12,250	13,400	29,709
26	1887	—	—	—	12,300	13,500	28,940
27	1888	—	—	—	12,300	13,550	28,918
28	1889	905	267,982	218,876	12,700	14,060	26,806
29	1890	—	—	—	12,814	14,384	324,866
30	1891	—	—	—	12,900	14,640	29,713
31	1892	—	—	—	13,250	15,200	28,324
32	1893	—	—	—	13,450	15,550	33,638
33	1894	—	—	—	13,500	15,700	22,440
34	1895	—	—	—	13,700	16,100	33,297
35	1896	—	—	—	13,800	16,650	32,643
36	1897	—	—	—	13,900	17,150	34,601
37	1898	—	—	—	13,900	17,450	27,420
38	1899	1,055	339,200	302,861	14,150	18,100	32,265

Statistical History of the American Cotton Industry—(Continued)

Exports of Cotton Manufactures (Thousands)	Crop (Bales) (Thousands)	CONSUMPTION BY MILLS (BALES) (Thousands)		Acreage Picked (Thousands)	Yield per Acre (Pounds)	Upland, Average Price Paid to Farmer	Standard Sheeting, Average Price
		Northern States	United States				
—	3	—	—	—	—	26.0	— 1
—	73	—	—	—	—	44.0	— 2
—	178	—	—	—	—	15.5	— 3
—	335	—	—	—	—	14.3	— 4
\$1,318	732	—	—	—	—	9.7	— 5
3,550	1,348	166	237	—	—	9.5	— 6
4,734	2,136	497	575	—	—	12.1	7.87 7
10,935	3,841	751	845	—	—	13.0	8.75 8
3,787	4,025	728	797	8,885	199	17.0	14.58 9
—	2,757	1,072	1,163	7,558	148	16.2	13.00 10
—	3,651	977	1,097	8,483	189	21.4	14.27 11
—	3,874	1,063	1,201	9,510	180	19.1	13.31 12
—	3,528	1,192	1,320	11,764	148	16.2	11.42 13
—	4,303	1,071	1,201	11,934	191	15.0	10.41 14
—	4,118	1,220	1,354	11,677	168	12.1	8.85 15
—	4,494	1,302	1,429	12,133	164	11.3	8.46 16
—	4,745	1,345	1,496	12,344	191	10.8	7.80 17
—	5,466	1,379	1,561	14,480	181	10.4	7.97 18
—	6,357	1,382	1,570	15,951	185	11.8	8.51 19
—	5,136	1,713	1,938	16,711	150	10.8	8.51 20
13,223	6,833	1,677	1,964	16,277	186	11.8	8.45 21
12,951	5,522	1,759	2,072	16,778	165	10.1	8.32 22
11,885	5,477	1,537	1,877	17,440	154	11.0	7.28 23
11,837	6,369	1,437	1,753	18,301	164	10.7	6.75 24
13,960	6,315	1,781	2,162	18,455	170	9.4	6.75 25
14,929	6,885	1,687	2,088	18,641	183	10.0	7.15 26
13,013	6,924	1,805	2,261	19,059	180	10.3	7.25 27
10,213	7,473	1,790	2,270	20,175	160	10.4	7.00 28
9,999	8,562	1,979	2,518	19,512	187	11.3	7.00 29
13,605	8,941	2,027	2,640	19,059	179	9.9	6.83 30
13,226	6,658	2,172	2,856	15,911	209	7.8	6.50 31
11,809	7,433	1,652	2,375	19,525	150	8.4	5.90 32
14,341	10,026	1,580	2,291	23,688	195	7.7	5.11 33
13,790	7,147	2,019	2,871	20,185	156	6.2	5.74 34
16,837	8,516	1,605	2,505	23,273	185	8.1	5.45 35
21,038	10,985	1,793	2,792	24,320	183	7.7	4.73 36
17,024	11,435	2,211	3,465	24,967	221	6.3	4.20 37
23,567	9,460	2,217	3,632	24,327	184	6.1	5.28 38

Statistical History of the American Cotton Industry—(Continued)

YEAR	Number of Establishments	Value of Products (Thousands)	Employees	ACTIVE SPINDLES (Thousands)		Looms	Imports of Cotton Manufacturers (Thousands)
				Northern States	United States		
1	1900	—	—	15,104	19,472	455,752	\$41,541
2	1901	—	—	14,700	20,200	—	40,436
3	1902	—	—	15,000	21,400	—	44,956
4	1903	—	—	15,100	22,000	—	53,269
5	1904	1,154	\$450,468	315,874	15,200	22,850	540,910
6	1905	—	—	—	16,056	23,687	—
7	1906	—	—	—	16,255	25,250	—
8	1907	—	—	—	16,847	26,375	—
9	1908	—	—	—	17,304	27,505	—
10	1909	1,324	628,392	378,880	17,589	28,018	632,963
11	1910	—	—	—	17,773	28,267	—
12	1911	—	—	—	18,438	29,523	—
13	1912	—	—	—	18,996	30,579	—
14	1913	—	—	—	19,293	31,520	—
15	1914	1,328	701,301	393,404	19,396	32,107	672,754
16	1915	—	—	—	19,008	31,964	—
17	1916	—	—	—	19,424	32,806	—
18	1917	—	—	—	19,733	33,889	—
19	1918	—	—	—	20,014	34,543	—
20	1919	1,496	2,195,566	446,852	20,085	34,931	692,169
21	1920	—	—	—	20,250	35,481	—
22	1921	1,527	1,330,263	425,817	20,338	36,047	—
23	1922	—	—	—	19,802	35,708	—
24	1923	1,643	2,010,141	495,197	19,950	36,260	—
25	1924	—	—	—	18,905	35,849	—
26	1925	1,638	1,819,886	468,352	17,740	35,032	—
27	1926	—	—	—	17,176	34,750	—
28	1927	1,610	1,659,519	489,036	16,516	34,410	715,046
29	1928	—	—	—	15,288	33,570	—
30	1929	—	—	—	13,877	32,417	—
31	1930	—	—	—	11,351	31,245	658,951

The figures in this table are not all precisely comparable throughout the entire period shown but are presented to show in a general way the changes which have taken place in the industry. The data are from various sources, largely official.

Statistical History of the American Cotton Industry—(Concluded)

Exports of Cotton Manufactures (Thousands)	Crop 500-lb. Bales, in- cluding linters (Thousands)	CONSUMPTION BY MILLS (BALES) (THOUSANDS)		Acreage Picked (Thousands)	Yield per Acre (Pounds)	Upland, Average Price Paid to Farmer	Standard Sheeting, Average Price
		Northern States	United States				
\$24,003	10,267	2,350	3,873	24,933	194	9.1	6.05 1
20,272	9,776	1,964	3,547	26,774	170	8.1	5.54 2
32,108	10,827	2,066	4,083	27,175	187	8.2	5.48 3
32,216	10,046	1,966	3,924	27,052	174	12.2	6.25 4
22,404	13,680	2,046	3,935	31,215	206	8.7	7.13 5
49,666	10,805	2,139	4,279	27,110	187	10.9	7.00 6
52,944	13,595	2,536	4,909	31,374	203	10.0	7.25 7
32,305	11,375	2,574	4,985	29,660	179	11.5	7.62 8
25,178	13,587	2,352	4,539	32,444	195	9.2	6.75 9
31,879	10,315	2,687	5,241	30,938	154	14.3	7.37 10
33,397	12,006	2,388	4,622	32,403	171	14.0	7.87 11
40,852	16,250	2,249	4,498	36,045	208	9.6	7.98 12
50,770	14,313	2,493	5,129	34,283	191	11.5	7.79 13
51,510	14,795	2,621	5,483	37,089	182	12.5	8.05 14
49,246	16,992	2,652	5,577	36,832	209	7.3	7.68 15
70,247	12,123	2,570	5,597	31,412	170	11.2	6.74 16
127,052	12,781	2,870	6,398	34,985	157	17.3	9.18 17
157,267	12,428	2,900	6,789	33,841	160	27.1	14.50 18
179,106	12,970	2,869	6,566	36,008	160	28.8	23.38 19
270,235	12,029	2,567	5,766	33,566	162	35.4	22.60 20
398,458	13,880	2,837	6,420	35,878	178	15.8	23.08 21
115,539	8,351	1,895	4,893	30,509	125	16.9	12.80 22
136,778	10,370	2,180	5,910	33,036	141	22.9	13.63 23
136,300	10,808	2,418	6,666	37,123	131	28.7	16.50 24
130,808	14,525	1,822	5,681	41,360	157	22.9	14.47 25
146,272	17,218	1,973	6,193	46,053	167	19.6	13.20 26
128,877	19,135	1,955	6,456	47,087	182	12.5	11.16 27
133,186	13,972	1,996	7,190	40,138	154	20.2	10.95 28
134,645	15,760	1,720	6,834	45,341	153	17.9	10.68 29
135,113	16,066	1,698	7,091	45,981 ²	155 ²	16.9	10.27 30
88,688	13,932 ¹	1,356	6,106	45,218 ²	147	—	8.25 31

¹Exclusive of linters. ²Preliminary estimate.

Approximate Value of Foreign Money

Source: The Merchants National Bank of Boston

COUNTRY	Monetary Unit and Fraction	Approximate Par Value of Foreign Unit in United States Dollars	Approximate Value of United States Dollar in Foreign Unit at Par
Argentina . .	{ 1 Gold peso = 100 Centavos 1 Paper peso = 100 Centavos	\$0.9648 .4245	1.0364 Gold pesos 2.3557 Paper pesos
Austria . .	1 Schilling = 100 Groschen	.1407	7.1073 Schillings
Belgium . .	1 Belga = 100 Centimes	.1390	7.1942 Belgas
Bolivia . .	1 Boliviiano = 100 Centavos	.3650	2.7397 Boliviarios
Brazil . .	1 Milreis = 1,000 Reis	.1196	8.3612 Milreis
Bulgaria . .	1 Lev = 100 Stotinki	.0072	138.8888 Leva
Canada . .	1 Dollar = 100 Cents	1.0000	1.00000 Dollar
Chile . .	1 Peso = 100 Centavos	.1217	8.2169 Pesos
China ¹ . .	— —	—	—
Colombia . .	1 Peso = 100 Centavos	.9733	1.0274 Pesos
Cuba . .	1 Peso = 100 Centavos	1.0000	1.0000 Pesos
Czechoslovakia .	1 Crown = 100 Hellers	.0296	33.7838 Crowns
Denmark . .	1 Krone = 100 Ore	.2680	3.7313 Kroner
Ecuador . .	1 Sucre = 100 Centavos	.2000	5.0000 Sucre
Egypt . .	1 Egyptian pound = 100 Piastres	4.9431	.2023 Egyptian pounds
Finland . .	1 Markka = 100 Pennia	.0252	39.6825 Markka
France . .	1 Franc = 100 Centimes	.0392	25.5102 Francs
Germany . .	1 Reichsmark = 100 Pfennigs	.2382	4.1982 Reichsmarks
Greece . .	1 Drachma = 100 Lepta	.0130	76.9231 Drachmas
Great Britain . .	{ 1 Pound Sterling = 20 Shillings 1 Shilling = 12 Pence	4.8665 .2433	0-4-14 Pounds sterling 4.1102 Shillings
Hungary . .	1 Pengo = 100 Garas	.1749	5.7176 Pengos
India . .	1 Rupee = 16 Annas	.3650	2.7397 Rupees
Italy . .	1 Lira = 100 Centesimi	.0526	19.0114 Lire
Japan . .	1 Yen = 100 Sen	.4985	2.0062 Yen
Jugo-Slavia . .	1 Dinar = 100 Paras	.1930	5.1813 Dinars
Mexico . .	1 Peso = 100 Centavos	.4985	2.0062 Pesos
Netherlands . .	1 Florin or guilder = 100 Cents	.4020	2.4876 Guilders
Norway . .	1 Krone = 100 Ore	.2680	3.7313 Kroner
Peru . .	{ 1 Libra = 10 Soles 1 Sol = 100 Centavos	4.000 .4000	.2500 Libras 2.5000 Soles
Poland . .	1 Zloty = 100 Grozy	.1122	8.9127 Zlotys
Portugal . .	1 Escudo = 100 Centavos	1.0805	.9254 Escudos
Rumania . .	1 Leu = 100 Ore	.0060	166.6667 Lei
Russia . .	1 Chervonetz = 10 Roubles	5.1460	.1943 Chervonetz
Spain . .	1 Peseta = 100 Centimos	.1930	5.1813 Pesetas
Sweden . .	1 Krona = 100 Ore	.2680	3.7313 Kronor
Switzerland . .	1 Franc = 100 Centimes	.1930	5.1813 Francs
Turkey . .	{ 1 Turkish pound = 100 Piastres 1 Piastre = 40 Paras	4.3965 .0439	.2275 Turkish pounds 22.7454 Piastres
Uruguay . .	1 Peso = 100 Centesimos	1.0342	.9671 Pesos
Venezuela . .	1 Bolivar = 100 Centimos	.1930	5.1813 Bolivares

¹ There is no uniform currency in China, the Mexican silver dollar being mostly used. The British dollar, termed Hongkong currency, has the same legal value as the Mexican dollar in Hongkong and the Straits Settlements, and usually prevails at about 30 cents United States gold.

NOTE.—Foreign money values are all subject to fluctuations.

TECHNICAL

Weight Equivalents

Corrected to second decimal place

1 ounce = 437.5 grains = 28.35 grams	9 ounces = 3937.5 grains = 255.14 grams
1½ ounces = 656.25 grains = 42.52 grams	9½ ounces = 4156.25 grains = 269.32 grams
2 ounces = 875.0 grains = 56.70 grams	10 ounces = 4375.0 grains = 283.50 grams
2½ ounces = 1093.75 grains = 70.87 grams	10½ ounces = 4593.75 grains = 297.67 grams
3 ounces = 1312.5 grains = 85.05 grams	11 ounces = 4812.5 grains = 311.84 grams
3½ ounces = 1531.25 grains = 99.22 grams	11½ ounces = 5031.25 grains = 326.02 grams
4 ounces = 1750.0 grains = 113.40 grams	12 ounces = 5250.0 grains = 340.19 grams
4½ ounces = 1968.75 grains = 127.57 grams	12½ ounces = 5468.75 grains = 354.37 grams
5 ounces = 2187.5 grains = 141.75 grams	13 ounces = 5687.5 grains = 368.54 grams
5½ ounces = 2406.25 grains = 155.92 grams	13½ ounces = 5906.25 grains = 382.71 grams
6 ounces = 2625.0 grains = 170.10 grams	14 ounces = 6125.0 grains = 396.89 grams
6½ ounces = 2843.75 grains = 184.27 grams	14½ ounces = 6343.75 grains = 411.06 grams
7 ounces = 3062.5 grains = 198.44 grams	15 ounces = 6562.5 grains = 425.24 grams
7½ ounces = 3281.25 grains = 212.62 grams	15½ ounces = 6781.25 grains = 439.41 grams
8 ounces = 3500.0 grains = 226.79 grams	16 ounces = 7000.0 grains = 453.59 grams
8½ ounces = 3718.75 grains = 240.97 grams	

Reference Data

Millimeters \times .03937 = inches or millimeters \div 25.4 = inches.Centimeters \times .3937 = inches or centimeters \div 2.54 = inches.Meters \times 39.37 = inches or meters \times 3.281 = feet.Kilometers \times .621 = miles.Square centimeters \times .155 = square inches or square meters \times 10.764 = square feet.Cubic meters \times 35.315 = cubic feet or cubic meters \times 1.308 = cubic yards.Liters \times .2642 = gallons (231 cubic inches).Grams \times 15.432 = grains or grams \div 28.35 = ounces avoirdupois.Kilograms \times 2.2046 = pounds or kilograms \div 907.2 = tons (2,000 pounds).Kilowatts \times 1.34 = horse power or watts \div 746. = horse power.Calorie \times 3.968 = British Thermal Unit.

1 Pint of water weighs 1.045 pounds.

1 Gallon of water = .1339 cubic feet = 8.36 pounds of water at 62° F.

1 Mile = 5,280 feet.

1 Pound (avoirdupois) = 7,000 grains = 453.6 grams.

1 Horse Power = 33,000 foot pounds of work done per minute = 746 watts.

The pressure of one atmosphere = 14.7 pounds per square inch, = 2,116 pounds per square foot, = a column of mercury 760 millimeters high.

A column of water 2.3 feet high corresponds to a pressure of 1 pound per square inch.

Approximate Power required for Cotton Machinery

	Horse Power
Bale Breaker	3-5
Self-Feeding Openers	3
Combined Self-Feeding Opener and Single Beater Breaker Lapper	9
40-Inch Single Beater Intermediate or Finisher Lapper	5
Two-Beater Intermediate or Finisher Lapper	10-12
Waste Picker	3
Thread Extractor with Condenser	2
40-Inch Revolving Flat Card, Production 750 pounds per week	1
Sliver Lap Machine	$\frac{1}{2}$
Ribbon Lap Machine	1
Comber 6-head	$\frac{1}{2}$
Comber 8-head	$\frac{2}{3}$
Drawing Frames 4 to 5 deliveries per	1
Slubber Frames 40 to 45 spindles per	1
Intermediate Frames 55 to 60 spindles per	1
Roving Frames 70 to 85 spindles per	1
Jack or Fine Roving Frames 100 spindles per	1
Ring Spinning Frames:	
6,000 r.p.m. (Filling) 110 spindles per	1
7,000 r.p.m. (Filling) 100 spindles per	1
8,000 r.p.m. (Warp) 90 spindles per	1
8,500 r.p.m. (Warp) 80 spindles per	1
9,000 r.p.m. (Warp) 70 spindles per	1
10,000 r.p.m. (Warp) 60 spindles per	1
Mule, 720 spindles per	$7\frac{1}{2}$
Twisters 10 to 50 spindles per	1
Cone Winders 65 drums per	1
Spoolers 200 to 300 spindles per	1
Warpers	$\frac{1}{4}-\frac{1}{2}$
Ball Warpers	$\frac{1}{2}$
Slasher	2
Looms:	
32 inch and 36 inch	$\frac{1}{4}$
40 inch and 48 inch	$\frac{1}{3}$
80 inch	$\frac{1}{2}$
92 inch to 108 inch	$\frac{3}{4}-1$
Brusher	1
Brusher and Shearer	3
Cloth Folder	$\frac{1}{3}-\frac{1}{2}$

NOTE.—The above figures are only approximate, but they give a fair average of the power required to drive the various machines. The speed production and many other conditions affect the power consumed. For Friction of Belting and Shafting add from 18 to 22 per cent.

Common and Range of Production for Cotton Machinery

MACHINE	Range of Draft	Common Draft	Common Production (10 Hours)	Common Production (10 Hours)	Per Cent Waste	Range of Speeds R. P. M.	Common Speeds R. P. M.	Range of Sizes	Common Sizes	Per Cent Stops
Bale opener	—	—	4,000-10,000	5,000-7,000	2-5-3	9" Cal. Roll	6	10-20	13-16	10
Breaker picker	—	2	1,500-3,000	2,000	—	4-8	6	10-20	12-15	5
Intermediate picker	3-5	4	1,000-2,500	1,200-1,600	1-5-2	4-8	6	10-20	11-14	10
Finisher picker	3-5	4	1,000-2,500	1,200-1,600	1-5-2	4-8	6	Grains 50-60	50-60	5
Card	85-130	90-110	30-200	85-150	4-12 (5-6)	27" Doffer	6-12	30-100	350-800	450-600
Sliver lapper (20 ends)	1 3/4-2 1/2	2-2 1/4	750-1,200	1,000	1	5" Pressed Roll	90-100	350-800	450-600	25
Ribbon lapper (4 head)	3-5	4	750-1,200	1,000	1	90-100	90-100	350-800	450-600	25
Comb (8 head)	40-80	60	80-150	100-128	Noil 8-30 Common 12-18	Nips 90-130	100	Grains 40-70	50-60	5
Draw frame (6 ends)	4-8	6	75-300	100-150	Less than 1	Front Roll	300-330	40-70	50-60	20-25
Slubber	3-5	4	—	—	275-375	Sp. Speed 600-800	Sp. Speed 600-800	25-1-0	Hank	15-20
Intermediate	4-6	5	—	—	Less than 1	800-1,000	800-1,000	1-2-5	4-1-0	.4-1-0
Fine	5-7	6	—	—	Less than 1	1,000-1,200	1,000-1,200	2-5-6-0	1-2-5	1-2-5
Jack	6-8	7	—	—	Less than 1	1,200-1,500	1,200-1,500	6 Hank	2-5-6-0	2-5-6-0
Production figures	—	—	—	—	—	—	—	and up	6 Hank	4-12
See pages 172, 173, 174, 175, 176, 177	—	—	—	—	—	—	—	4's-140	7-9	7-9
Ring spinning	6-20	8-12	—	—	Less than 1	4,000-10,000	4,000-10,000	4's-140	10	10
Mule	6-20	8-12	—	—	Less than 1	4,000-10,000	4,000-10,000	15's-400	12	12

Range of Production of Roving Frames

SLUBBER (12 x 6 Bobbin)

Hank Roving	Twist per Inch	R. P. M. Front Roll	Sets per Day	Hanks per Day	Pounds Production per Spindle for 10 Hours ¹
.25	.50-.60	267-322	17.24-17.54	11.85-13.30	47.4-53.21
.30	.55-.66	243-292	14.59-14.87	12.03-13.37	40.11-44.57
.35	.59-.71	226-273	12.55-12.81	12.08-13.42	34.52-38.36
.40	.63-.76	211-255	10.88-11.12	11.97-13.46	29.93-33.66
.45	.67-.80	201-240	9.60-9.83	11.88-13.25	26.39-29.45
.50	.71-.85	189-226	8.44-8.73	11.61-13.09	23.21-26.18
.55	.74-.89	180-217	7.54-7.72	11.40-12.96	20.72-23.57
.60	.78-.93	173-206	6.77-7.00	11.17-12.52	18.61-20.87
.65	.81-.97	165-199	6.11-6.27	10.92-12.33	16.80-18.98
.70	.84-1.00	160-191	5.59-5.74	10.75-12.16	15.36-17.38
.75	.87-1.04	154-185	5.09-5.23	10.49-11.90	13.99-15.87
.80	.90-1.07	150-179	4.69-4.82	10.31-11.56	12.89-14.46

SLUBBER (11 x 5½ Bobbin)

.40	.63-.76	234-277	14.53-14.54	11.62-12.64	29.03-31.60
.45	.67-.80	223-260	13.02 —	11.71-12.55	26.04-27.90
.50	.71-.84	210-245	11.60-11.70	11.60-12.50	23.21-25.00
.55	.74-.89	200-235	10.46-10.47	11.52-12.45	20.72-22.64
.60	.78-.92	192-223	9.49-9.57	11.38-12.19	18.61-20.32
.65	.81-.97	184-215	8.63-8.64	11.22-12.18	16.80-18.75
.70	.84-1.00	178-207	7.95 —	11.13-11.99	15.36-17.14
.75	.87-1.04	171-200	7.28 —	10.92-11.83	13.99-15.78
.80	.90-1.07	166-194	6.74-6.75	10.78-11.71	12.89-14.64
.85	.92-1.11	160-189	6.21-6.22	10.57-11.59	11.82-13.64
.90	.95-1.14	156-183	5.79 —	10.42-11.38	10.97-12.64
.95	.97-1.17	152-180	5.40-5.41	10.26-11.28	10.20-11.88
1.00	1.00-1.20	148-174	5.06-5.07	10.12-11.10	9.52-11.10

INTERMEDIATE (10 x 5 Bobbin)

.90	1.04-1.14	190-206	8.57-8.60	11.56-11.70	12.85-13.00
.95	1.07-1.17	185-200	8.07 —	11.50-11.58	12.10-12.19
1.00	1.10-1.20	180-195	7.59 —	11.38-11.34	11.38-11.34
1.05	1.13-1.23	176-190	7.15-7.16	11.27-11.25	10.73-10.71
1.10	1.15-1.26	172-186	6.72-6.75	11.08-11.18	10.08-10.16
1.15	1.18-1.29	168-182	6.37-6.38	10.99-11.10	9.56-9.65
1.20	1.20-1.31	165-179	6.07 —	10.93-11.04	9.11-9.20
1.25	1.23-1.34	161-174	5.74-5.75	10.76-10.89	8.61-8.71
1.30	1.25-1.37	158-172	5.45-5.46	10.63-10.73	8.18-8.26
1.35	1.28-1.39	154-168	5.20-5.21	10.53-10.62	7.80-7.87
1.40	1.30-1.42	150-165	4.95-4.96	10.39-10.51	7.42-7.51
1.50	1.35-1.47	147-159	4.52-4.53	10.17-10.26	6.78-6.84
1.60	1.39-1.52	142-154	4.14 —	9.94-10.08	6.21-6.30

¹ Allowance made for doffing, etc.

Range of Production of Roving Frames—(Continued)

INTERMEDIATE (9 x 4½ Bobbin)

Hank Roving	Twist per Inch	R. P. M. Front Roll	Sets per Day	Hanks per Day	Pounds Production per Spindle for 10 Hours ¹
1.40	1.42 —	170 —	6.96- 6.95	10.40-10.96	7.43- 7.83
1.50	1.47 —	164-165	6.39- 6.40	10.14-10.80	6.76- 7.20
1.60	1.52 —	159 —	5.88 —	10.00-10.59	6.25- 6.62
1.75	1.59 —	152 —	5.23- 5.24	9.71-10.31	5.55- 5.89
2.00	1.69-1.70	142 —	4.39 —	9.32- 9.88	4.66- 4.94

INTERMEDIATE (8 x 4 Bobbin)

2.50	1.90 —	156-160	4.45 —	9.70- 9.75	3.66- 3.90
3.00	2.08 —	143-146	3.48- 3.49	9.12- 9.15	2.85- 3.05
3.50	2.24 —	133-136	8.65 —	8.68- 8.65	2.31- 2.47

FLY FRAME (7 x 3½ Bobbin)

3.00	2.07-2.25	151-157	5.10- 5.12	8.67- 9.60	2.89- 3.20
3.25	2.16-2.34	145-151	4.60 —	8.48- 9.36	2.61- 2.88
3.50	2.24-2.43	140-145	4.17 —	8.33- 9.14	2.38- 2.61
3.75	2.32-2.52	135-140	3.80 —	8.14- 8.93	2.17- 2.38
4.00	2.40-2.60	131-136	3.47- 3.48	7.96- 8.72	1.99- 2.18
4.25	2.47-2.68	127-132	3.20 —	7.86- 8.50	1.85- 2.00
4.50	2.54-2.76	123-128	2.96 —	7.70- 8.33	1.71- 1.85
4.75	2.60-2.83	120-125	2.75 —	7.55- 8.17	1.59- 1.72
5.00	2.67-2.90	117-121	2.55- 2.56	7.45- 8.00	1.49- 1.60
5.25	2.75-2.98	114-119	2.38 —	7.30- 7.82	1.39- 1.49
5.50	2.80-3.05	111-116	2.23- 2.24	7.15- 7.70	1.30- 1.40
5.75	2.88-3.12	109-113	2.09 —	7.02- 7.53	1.22- 1.31
6.00	2.92-3.18	107-111	1.97 —	6.96- 7.38	1.16- 1.23
6.50	3.06-3.31	103-106	1.76 —	6.70- 7.15	1.03- 1.10
7.00	3.17-3.44	98-103	1.58 —	6.44- 6.93	.92- .99

JACK FRAME (6 x 3 Bobbin)

8.00	3.39-3.40	104-109	1.98- 2.06	6.88- 7.21	.86- .90
9.00	3.60 —	98-102	1.67- 1.74	6.57- 6.85	.73- .76
10.00	3.79 —	93- 97	1.44- 1.50	6.30- 6.56	.63- .66
11.00	3.97-3.99	89- 92	1.26- 1.30	6.05- 6.26	.55- .57
12.00	4.16 —	85- 89	1.15- 1.14	5.88- 6.04	.49- .50
13.00	4.33 —	82- 85	.98- 1.02	5.59- 5.80	.43- .45
14.00	4.49-4.50	79- 82	.88- .92	5.39- 5.46	.39- .40

¹ Allowance made for doffing, etc.

Range of Production of Roving Frames—(Concluded)

JACK (6 x 2½ Bobbin)

Hank Roving	Twist per Inch	R. P. M., Front Roll	Sets per Day	Hanks per Day	Pounds Production per Spindle for 10 Hours ¹
11.00	3.97-4.31	89-100	1.71- 1.93	5.72- 6.63	.52- .60
12.00	4.15-4.50	85- 95	1.51- 1.70	5.52- 6.36	.46- .53
13.00	4.33-4.69	82- 91	1.34- 1.52	5.33- 6.18	.41- .48
14.00	4.49-4.86	79- 88	1.20- 1.37	5.18- 5.99	.37- .43
16.00	4.80-5.20	74- 83	.99- 1.12	4.96- 5.60	.31- .35
18.00	5.08-5.52	69- 78	.83- .95	4.68- 5.35	.26- .30
20.00	5.36-5.81	66- 74	.71- .81	4.40- 5.06	.22- .28
22.00	5.62-6.10	63- 70	.62- .71	4.18- 4.89	.19- .22
24.00	5.87-6.37	60- 67	.55- .62	4.08- 4.66	.17- .19

JACK (7 x 3 Bobbin)

5.50	2.80-2.82	125-127	3.10- 2.93	7.70- 7.93	1.45- 1.40
5.75	2.88 —	118-123	2.54- 2.40	7.65- 7.76	1.35- 1.33
6.00	2.92-2.94	115-120	2.26- 2.41	7.56- 7.68	1.28- 1.26
6.50	3.06 —	111-116	2.02- 2.14	7.35- 7.41	1.14- 1.13
7.00	3.17 —	107-112	1.82- 1.93	7.14- 7.21	1.03- 1.02
7.50	3.29 —	103-108	1.64- 1.74	6.98- 6.90	.92- .93
8.00	3.39-3.40	100-104	1.50- 1.58	6.76- 6.72	.84- .85
9.00	3.60 —	94- 98	1.27- 1.34	6.48- 6.39	.71- .72

¹ Allowance made for doffing, etc.

Range of Production of Ring Filling Yarn

YARN NUMBER	R. P. M. Spindles	Twist per Inch	R. P. M. Front Roll	Pounds Production per Spindle for 10 Hours ¹
4	4,000-4,700	6.50- 7.50	182.0-200	2,414-2,480
5	4,400-4,875	7.27- 7.83	178.8-198	1,897-1,968
6	4,800-5,225	7.96- 8.57	178.3-194	1,594-1,600
7	5,150-5,525	8.60- 9.26	176.9-190	1,356-1,344
8	5,450-5,825	9.19- 9.90	175.3-188	1,176-1,189
9	5,700-6,025	9.75-10.50	172.7-186	1,030-1,033
10	5,950-6,225	10.28-11.07	171.0-184	.928- .910
11	6,150-6,375	10.78-11.61	168.6-182	.832- .820
12	6,350-6,500	11.26-12.12	166.7-179	.763- .733
13	6,500-6,675	11.72-12.62	164.0-177	.693- .665
14	6,700-6,825	12.16-13.10	162.7-175	.638- .617
15	6,850-6,975	12.59-13.56	160.7-173	.588- .569
16	6,950-7,125	13.00-14.00	158.0-170	.542- .533
17	7,100-7,250	13.40-14.43	156.6-168	.506- .496
18	7,200-7,425	13.79-14.85	154.3-166	.471- .471
19	7,300-7,525	14.17-15.26	152.5-164	.441- .440
20	7,400-7,675	14.53-15.65	150.4-162	.418- .420
21	7,500-7,800	14.89-16.04	148.8-160	.394- .397
22	7,600-7,950	15.24-16.42	147.3-158	.372- .378
23	7,700-8,075	15.59-16.79	145.9-156	.352- .362
24	7,800-8,200	15.92-17.15	144.7-154	.335- .345
25	7,850-8,300	16.25-17.50	142.8-152	.317- .333
26	7,850-8,400	16.57-17.85	140.0-150	.302- .318
27	7,850-8,325	16.89-17.66	141.6-150	.295- .310
28	7,900-8,300	17.20-17.99	139.7-147	.280- .293
29	7,900-8,300	17.50-18.29	137.4-145	.266- .279
30	7,900-8,300	17.80-18.35	136.9-144	.259- .267
31	7,900-8,300	18.10-18.62	135.0-142	.248- .256
32	7,900-8,250	18.38-18.64	134.9-141	.239- .248
33	7,900-8,200	18.67-18.94	133.3-138	.229- .236
34	7,900-8,150	18.95-18.95	132.7-137	.222- .227
35	7,900-8,150	19.23-19.23	130.7-135	.214- .217
36	7,900-8,150	19.50-19.50	128.9-133	.206- .211
37	7,900-8,125	19.77-19.77	127.2-131	.195- .202
38	7,900-8,100	20.03-20.03	125.5-129	.190- .193
39	7,900-8,100	20.30-20.30	123.8-127	.182- .185
40	7,900-8,075	20.55-20.55	122.0-125	.177- .179
41	7,900-8,050	20.81-20.81	120.8-123	.171- .173
42	7,900-8,000	21.06-21.06	119.0-121	.165- .166
43	7,900-7,975	21.31-21.31	117.9-119	.159- .159
44	7,900-7,975	21.56-21.56	116.6-118	.154- .154
45	7,900-7,950	21.80-21.80	115.0-116	.149- .149
46	7,900-7,950	22.04-22.04	114.0-115	.144- .145
47	7,900-7,900	22.28-22.28	112.8-113	.139- .140
48	7,900-7,850	22.52-22.52	112.0-111	.135- .134
49	7,900-7,850	22.75-22.75	111.0-110	.131- .131
50	7,900-7,800	22.98-22.98	109.4-108	.128- .126
55	7,900-7,800	24.10-24.10	104.3-103	.112- .110
60	7,900-7,825	25.16-25.17	100.0-99	.100- .098
65	7,800-7,850	25.79-26.20	95.0-97	.088- .088
70	7,800-7,825	26.75-27.19	91.0-93	.079- .080
75	7,800-7,825	27.71-28.15	88.0-90	.072- .072
80	7,700-7,825	28.16-29.07	84.0-87	.066- .066
85	7,600-7,800	29.04-29.96	81.0-84	.059- .060
90	7,400-7,725	29.39-30.83	77.0-81	.054- .054
95	7,400-7,675	30.19-31.68	74.0-78	.050- .049
100	7,200-7,650	30.50-32.50	71.0-76	.046- .046

¹ Allowance made for doffing, etc.

Range of Production of Ring Warp Yarn

YARN NUMBER	R. P. M. Spindles	Twist per Inch	R. P. M. Front Roll	Pounds Production per Spindle for 10 Hours ¹
4	4,950-5,075	9.50	—	2.278-2.323
5	5,450-5,550	10.62	—	1.791-1.822
6	5,900-6,000	11.63	—	1.477-1.513
7	6,300-6,450	12.56	—	1.252-1.282
8	6,650-6,725	13.43	—	1.082-1.103
9	7,000-7,100	14.25	—	.954-.968
10	7,250-7,250	15.02	—	.853-.859
11	7,500-7,550	15.75	—	.765-.771
12	7,750-7,775	16.45	—	.694-.697
13	7,950-8,000	17.12	—	.631-.640
14	8,150-8,175	17.77	—	.579-.582
15	8,300-8,325	18.39	—	.632-.535
16	8,450-8,475	19.00	—	.497-.495
17	8,600-8,625	19.58	—	.468-.460
18	8,750-8,750	20.15	—	.429-.427
19	8,850-8,850	20.70	—	.398-.400
20	8,950-8,925	21.24	—	.376-.378
21	9,050-9,050	21.76	—	.334-.365
22	9,100-9,100	22.27	—	.332-.333
23	9,150-9,175	22.78	—	.312-.314
24	9,200-9,225	23.27	—	.294-.297
25	9,300-9,300	23.75	—	.280-.285
26	9,400-9,425	24.22	—	.270-.272
27	9,450-9,475	24.68	—	.256-.258
28	9,500-9,475	25.13	—	.244-.245
29	9,500-9,500	25.58	—	.231-.232
30	9,500-9,550	26.02	—	.220-.225
31	9,500-9,550	26.44	—	.210-.214
32	9,500-9,550	26.87	—	.200-.204
33	9,550-9,600	27.28	—	.192-.195
34	9,600-9,650	27.69	—	.184-.188
35	9,600-9,675	28.10	—	.178-.181
36	9,700-9,675	28.50	—	.173-.173
37	9,700-9,700	28.89	—	.166-.186
38	9,800-9,700	29.28	—	.161—
39	9,800-9,700	29.66	—	.155—
40	9,700-9,700	29.07	—	.152—
41	9,700-9,700	29.44	—	.147—
42	9,675-9,700	29.80-29.9	103.0-103.6	.142-.144
43	9,675-9,700	30.13-30.2	102.0-102.5	.137-.140
44	9,675-9,700	30.49-30.5	101.0-101.2	.132-.135
45	9,675-9,700	30.82-30.8	100.0-100.2	.129-.131
46	9,681-9,700	31.18-28.8	107.0-99.0	.125-.137
47	9,690-9,700	31.51-29.1	106.0-98.0	.121-.133
48	9,698-9,700	31.83-29.4	105.0-97.0	.117-.129
49	9,736-9,700	32.20-29.8	104.0-95.9	.114-.125
50	9,740-9,700	32.52-30.1	103.0-94.9	.110-.122
55	9,896-9,600	33.34-31.5	100.0-91.6	.098-.107
60	9,544-9,600	34.83-31.0	98.0-87.7	.087-.098
65	9,640-9,600	36.27-32.3	95.0-84.2	.077-.088
70	9,577-9,600	37.62-33.5	91.0-81.2	.069-.079
75	9,456-9,500	38.10-34.6	87.0-79.4	.063-.070
80	9,447-9,500	39.33-35.8	84.0-76.9	.058-.064
85	9,274-9,100	39.64-36.9	80.0-74.0	.052-.057
90	9,073-9,100	40.76-38.0	76.0-71.0	.048-.051
95	8,944-9,000	41.83-39.0	73.0-68.5	.044-.047
100	8,796-8,700	42.00-40.0	70.0-65.9	.040-.042

¹ Allowance made for doffing, etc.

Range of Production of Ring Hosiery Yarns
 [Twist Multiplier—3.00]

YARN NUMBER	R. P. M. Spindles	Twist per Inch	R. P. M. Front Roll	Pounds Production per Spindle for 10 Hours ¹
4	3,393-3,400	6.00	180-180.3	2.359-2.400
5	3,700-3,711	6.71	176-175.4	1.836-1.872
6	3,995-4,000	7.35	173-173.2	1.511-1.537
7	4,191-4,200	7.94	168-168.3	1.258-1.280
8	4,396-4,400	8.49	165-164.9	1.092-1.112
9	4,609-4,600	9.00	163-162.6	.957-.976
10	4,800-4,800	9.49	161-161.0	.853-.878
11	5,001-5,000	9.95	160-159.9	.770-.793
12	5,157-5,150	10.39	158-157.7	.704-.718
13	5,337-5,350	10.82	157-157.4	.649-.666
14	5,499-5,500	11.22	156-156.3	.598-.614
15	5,658-5,650	11.62	155-154.7	.553-.570
16	5,806-5,800	12.00	154-153.8	.515-.530
17	5,907-5,900	12.37	152-151.7	.484-.493
18	5,999-6,000	12.73	150-150.0	.446-.459
19	6,077-6,100	13.08	148-148.4	.423-.435
20	6,109-6,100	13.42	145-144.6	.396-.404
21	6,177-6,100	13.75	143-141.2	.369-.380
22	6,188-6,200	14.07	140-140.2	.349-.355
23	6,193-6,200	14.39	137-137.1	.327-.332
24	6,235-6,200	14.70	135-134.2	.310-.313
25	6,267-6,300	15.00	133-133.7	.297-.296
26	6,297-6,300	15.30	131-131.0	.283-.284
27	6,318-6,300	15.59	129-128.6	.267-.269
28	6,332-6,300	15.87	127-126.3	.253-.259
29	6,342-6,300	16.16	125-124.0	.240-.246
30	6,400-6,400	16.43	124-123.9	.232-.236

¹ Allowance made for doffing, etc.

Roving Table

For numbering by weight, in grains, of 12 yards; and showing twist per inch

Weight (Grains)	Hank Roving	Square Root	TWIST PER INCH							
			TWIST MULTIPLIERS							
			.70	.80	.90	1.00	1.10	1.20	1.25	1.30
500.00	.20	.447	.31	.36	.40	.45	.49	.54	.56	.58
400.00	.25	.500	.35	.40	.45	.50	.55	.60	.63	.65
333.33	.30	.548	.38	.44	.49	.55	.60	.66	.69	.71
285.71	.35	.592	.41	.47	.53	.59	.65	.71	.74	.77
250.00	.40	.632	.44	.50	.57	.63	.69	.76	.79	.82
222.22	.45	.671	.47	.54	.60	.67	.74	.81	.84	.87
200.00	.50	.707	.49	.57	.64	.71	.78	.85	.88	.92
181.82	.55	.742	.52	.59	.67	.74	.82	.89	.93	.96
166.67	.60	.775	.54	.62	.70	.78	.85	.93	.97	1.01
153.85	.65	.806	.56	.64	.73	.81	.89	.97	1.01	1.05
142.86	.70	.837	.59	.67	.75	.84	.92	1.00	1.05	1.09
133.33	.75	.866	.61	.69	.78	.87	.95	1.04	1.08	1.13
125.00	.80	.894	.63	.72	.80	.89	.98	1.07	1.12	1.16
117.65	.85	.922	.65	.74	.83	.92	1.01	1.11	1.15	1.20
111.11	.90	.949	.66	.76	.85	.95	1.04	1.14	1.19	1.23
105.26	.95	.975	.68	.78	.88	.98	1.07	1.17	1.22	1.27
100.00	1.00	1.000	.70	.80	.90	1.00	1.10	1.20	1.25	1.30
95.25	1.05	1.025	.72	.82	.92	1.03	1.13	1.23	1.28	1.33
90.91	1.10	1.049	.73	.84	.94	1.05	1.15	1.26	1.31	1.36
86.96	1.15	1.073	.75	.86	.97	1.07	1.18	1.29	1.34	1.39
83.33	1.20	1.095	.77	.88	.99	1.10	1.20	1.31	1.37	1.42
80.00	1.25	1.118	.78	.89	1.01	1.12	1.23	1.34	1.40	1.45
76.92	1.30	1.140	.80	.91	1.03	1.14	1.25	1.37	1.43	1.48
74.07	1.35	1.162	.81	.93	1.05	1.16	1.28	1.39	1.45	1.51
71.43	1.40	1.183	.83	.95	1.06	1.18	1.30	1.42	1.48	1.54
69.00	1.45	1.204	.84	.96	1.08	1.20	1.32	1.44	1.51	1.57
66.67	1.50	1.225	.86	.98	1.10	1.23	1.35	1.47	1.53	1.59
64.52	1.55	1.245	.87	1.00	1.12	1.25	1.37	1.49	1.56	1.62
62.50	1.60	1.265	.89	1.01	1.14	1.27	1.39	1.52	1.58	1.64
60.61	1.65	1.285	.90	1.03	1.16	1.29	1.41	1.54	1.61	1.67
58.82	1.70	1.304	.91	1.04	1.17	1.30	1.43	1.56	1.63	1.70
57.14	1.75	1.323	.93	1.06	1.19	1.32	1.46	1.59	1.65	1.72
55.56	1.80	1.342	.94	1.07	1.21	1.34	1.48	1.61	1.68	1.74
54.05	1.85	1.360	.95	1.09	1.22	1.36	1.50	1.63	1.70	1.77
52.63	1.90	1.378	.96	1.10	1.24	1.38	1.52	1.65	1.72	1.79
51.27	1.95	1.397	.98	1.12	1.26	1.40	1.54	1.68	1.75	1.82
50.00	2.00	1.414	.99	1.13	1.27	1.41	1.56	1.70	1.77	1.84
48.78	2.05	1.432	1.00	1.15	1.29	1.43	1.58	1.72	1.79	1.86
47.62	2.10	1.449	1.01	1.16	1.30	1.45	1.59	1.74	1.81	1.88
46.51	2.15	1.467	1.03	1.17	1.32	1.47	1.61	1.76	1.83	1.91
45.45	2.20	1.483	1.04	1.19	1.33	1.48	1.63	1.78	1.85	1.93
44.44	2.25	1.500	1.05	1.20	1.35	1.50	1.65	1.80	1.88	1.95
43.48	2.30	1.515	1.06	1.21	1.36	1.52	1.67	1.82	1.89	1.97
42.55	2.35	1.535	1.07	1.23	1.38	1.54	1.69	1.84	1.92	2.00
41.67	2.40	1.549	1.08	1.24	1.39	1.55	1.70	1.86	1.94	2.01
40.82	2.45	1.565	1.10	1.25	1.41	1.57	1.72	1.88	1.96	2.03
40.00	2.50	1.583	1.11	1.27	1.42	1.58	1.74	1.90	1.98	2.06
39.22	2.55	1.597	1.12	1.28	1.44	1.60	1.76	1.92	2.00	2.08
38.46	2.60	1.611	1.13	1.29	1.45	1.61	1.77	1.93	2.01	2.09
37.73	2.65	1.630	1.14	1.30	1.47	1.63	1.79	1.96	2.04	2.12
37.04	2.70	1.643	1.15	1.31	1.48	1.64	1.81	1.97	2.05	2.14
36.36	2.75	1.658	1.16	1.33	1.49	1.66	1.82	1.99	2.07	2.16

Roving Table—(Continued)

Weight (Grains)	Hank Roving	Square Root	TWIST PER INCH							
			TWIST MULTIPLIERS							
			.80	.90	1.00	1.10	1.20	1.25	1.30	1.35
35.71	2.80	1.673	1.34	1.51	1.67	1.84	2.01	2.09	2.17	2.26
35.09	2.85	1.688	1.35	1.52	1.69	1.86	2.03	2.11	2.19	2.28
34.48	2.90	1.703	1.36	1.53	1.70	1.87	2.04	2.13	2.21	2.30
33.91	2.95	1.718	1.37	1.55	1.72	1.89	2.06	2.15	2.23	2.32
33.33	3.00	1.732	1.39	1.56	1.73	1.91	2.08	2.17	2.25	2.34
32.79	3.05	1.746	1.40	1.57	1.75	1.92	2.10	2.18	2.27	2.36
32.26	3.10	1.760	1.41	1.58	1.76	1.94	2.11	2.20	2.29	2.38
31.76	3.15	1.775	1.42	1.60	1.78	1.95	2.13	2.22	2.31	2.40
31.25	3.20	1.789	1.43	1.61	1.79	1.97	2.15	2.24	2.33	2.42
30.78	3.25	1.803	1.44	1.62	1.80	1.98	2.16	2.25	2.34	2.43
30.30	3.30	1.817	1.45	1.64	1.82	2.00	2.18	2.27	2.36	2.45
29.86	3.35	1.831	1.46	1.65	1.83	2.01	2.20	2.29	2.38	2.47
29.41	3.40	1.844	1.48	1.66	1.84	2.02	2.21	2.31	2.40	2.49
28.99	3.45	1.857	1.49	1.67	1.86	2.04	2.23	2.32	2.41	2.51
28.57	3.50	1.870	1.50	1.68	1.87	2.06	2.24	2.34	2.43	2.52
28.17	3.55	1.884	1.51	1.70	1.88	2.07	2.26	2.36	2.45	2.54
27.78	3.60	1.897	1.52	1.71	1.90	2.09	2.28	2.37	2.47	2.56
27.40	3.65	1.910	1.53	1.72	1.91	2.10	2.29	2.39	2.48	2.58
27.03	3.70	1.924	1.54	1.73	1.92	2.12	2.31	2.41	2.50	2.60
26.67	3.75	1.936	1.55	1.74	1.94	2.13	2.32	2.42	2.52	2.61
26.32	3.80	1.950	1.56	1.76	1.95	2.15	2.34	2.44	2.54	2.63
25.98	3.85	1.963	1.57	1.77	1.96	2.16	2.36	2.45	2.55	2.65
25.64	3.90	1.975	1.58	1.78	1.98	2.17	2.37	2.47	2.57	2.67
25.32	3.95	1.987	1.59	1.79	1.99	2.19	2.38	2.48	2.58	2.68
25.00	4.00	2.000	1.60	1.80	2.00	2.20	2.40	2.50	2.60	2.70
24.69	4.05	2.012	1.61	1.81	2.01	2.21	2.41	2.52	2.62	2.72
24.39	4.10	2.025	1.62	1.82	2.03	2.23	2.43	2.53	2.63	2.73
24.10	4.15	2.038	1.63	1.83	2.04	2.24	2.45	2.55	2.65	2.75
23.81	4.20	2.049	1.64	1.84	2.05	2.25	2.46	2.56	2.66	2.77
23.53	4.25	2.063	1.65	1.86	2.06	2.27	2.48	2.58	2.68	2.79
23.26	4.30	2.074	1.66	1.87	2.07	2.28	2.49	2.59	2.70	2.80
23.00	4.35	2.085	1.67	1.88	2.09	2.29	2.50	2.61	2.71	2.81
22.73	4.40	2.098	1.68	1.89	2.10	2.31	2.52	2.62	2.73	2.83
22.48	4.45	2.110	1.69	1.90	2.11	2.32	2.53	2.64	2.74	2.85
22.22	4.50	2.121	1.70	1.91	2.12	2.33	2.55	2.65	2.76	2.86
21.98	4.55	2.133	1.71	1.92	2.13	2.35	2.56	2.67	2.77	2.88
21.74	4.60	2.145	1.72	1.93	2.15	2.36	2.57	2.68	2.79	2.90
21.51	4.65	2.156	1.72	1.94	2.16	2.37	2.59	2.70	2.80	2.91
21.28	4.70	2.167	1.73	1.95	2.17	2.38	2.60	2.71	2.82	2.93
21.05	4.75	2.179	1.74	1.96	2.18	2.40	2.61	2.72	2.83	2.94
20.83	4.80	2.191	1.75	1.97	2.19	2.41	2.63	2.74	2.85	2.96
20.62	4.85	2.202	1.76	1.98	2.20	2.42	2.64	2.75	2.86	2.97
20.41	4.90	2.213	1.77	1.99	2.21	2.43	2.66	2.77	2.88	2.99
20.20	4.95	2.225	1.78	2.00	2.23	2.45	2.67	2.78	2.89	3.00
20.00	5.00	2.236	1.79	2.01	2.24	2.46	2.68	2.80	2.91	3.02
19.80	5.05	2.247	1.80	2.02	2.25	2.47	2.70	2.81	2.92	3.03
19.61	5.10	2.259	1.81	2.03	2.26	2.48	2.71	2.82	2.94	3.05
19.42	5.15	2.269	1.82	2.04	2.27	2.50	2.72	2.84	2.95	3.06
19.23	5.20	2.280	1.82	2.05	2.28	2.51	2.74	2.85	2.96	3.08
19.05	5.25	2.291	1.83	2.06	2.29	2.52	2.75	2.86	2.98	3.09
18.87	5.30	2.302	1.84	2.07	2.30	2.53	2.76	2.88	2.99	3.11
18.69	5.35	2.313	1.85	2.08	2.31	2.54	2.78	2.89	3.01	3.12

Roving Table—(Continued)

Weight (Grains)	Hank Roving	Square Root	TWIST PER INCH							
			TWIST MULTIPLIERS							
			1.00	1.10	1.20	1.25	1.30	1.35	1.40	1.45
18.52	5.40	2.324	2.32	2.56	2.79	2.91	3.02	3.14	3.25	3.37
18.35	5.45	2.334	2.33	2.57	2.80	2.92	3.03	3.15	3.27	3.38
18.18	5.50	2.345	2.35	2.58	2.81	2.93	3.05	3.17	3.28	3.40
18.02	5.55	2.356	2.36	2.59	2.83	2.95	3.06	3.18	3.30	3.42
17.86	5.60	2.366	2.37	2.60	2.84	2.96	3.08	3.19	3.31	3.43
17.70	5.65	2.377	2.38	2.61	2.85	2.97	3.09	3.21	3.33	3.45
17.54	5.70	2.388	2.39	2.63	2.87	2.99	3.10	3.22	3.34	3.46
17.36	5.75	2.398	2.40	2.64	2.88	3.00	3.12	3.24	3.36	3.48
17.24	5.80	2.408	2.41	2.65	2.89	3.01	3.13	3.25	3.37	3.49
17.09	5.85	2.418	2.42	2.66	2.90	3.02	3.14	3.26	3.39	3.51
16.95	5.90	2.429	2.43	2.67	2.91	3.04	3.16	3.28	3.40	3.52
16.81	5.95	2.439	2.44	2.68	2.93	3.05	3.17	3.29	3.41	3.54
16.67	6.00	2.449	2.45	2.69	2.94	3.06	3.18	3.31	3.43	3.55
16.39	6.10	2.470	2.47	2.72	2.96	3.09	3.21	3.33	3.46	3.58
16.27	6.15	2.480	2.48	2.73	2.98	3.10	3.22	3.35	3.47	3.60
16.03	6.25	2.500	2.50	2.75	3.00	3.13	3.25	3.38	3.50	3.63
15.87	6.30	2.510	2.51	2.76	3.01	3.14	3.26	3.39	3.52	3.64
15.62	6.40	2.530	2.53	2.78	3.04	3.16	3.29	3.42	3.54	3.67
15.38	6.50	2.550	2.55	2.81	3.06	3.19	3.32	3.44	3.57	3.70
15.15	6.60	2.569	2.57	2.83	3.08	3.21	3.34	3.47	3.60	3.73
14.93	6.70	2.588	2.59	2.85	3.11	3.24	3.36	3.49	3.62	3.75
14.82	6.75	2.597	2.60	2.86	3.12	3.25	3.38	3.51	3.64	3.77
14.71	6.80	2.608	2.61	2.87	3.13	3.26	3.39	3.52	3.65	3.78
14.49	6.90	2.627	2.63	2.89	3.15	3.28	3.42	3.55	3.68	3.81
14.29	7.00	2.646	2.65	2.91	3.18	3.31	3.44	3.58	3.70	3.84
14.08	7.10	2.665	2.67	2.93	3.20	3.33	3.46	3.60	3.73	3.86
14.00	7.15	2.674	2.67	2.94	3.21	3.34	3.48	3.61	3.74	3.88
13.81	7.25	2.693	2.69	2.96	3.23	3.37	3.50	3.64	3.77	3.90
13.70	7.30	2.702	2.70	2.97	3.24	3.38	3.51	3.65	3.78	3.92
13.51	7.40	2.720	2.72	2.99	3.26	3.40	3.53	3.67	3.81	3.94
13.33	7.50	2.739	2.74	3.01	3.29	3.42	3.56	3.70	3.83	3.97
13.16	7.60	2.759	2.76	3.03	3.31	3.44	3.58	3.72	3.86	4.00
12.99	7.70	2.775	2.78	3.05	3.33	3.47	3.61	3.75	3.89	4.02
12.91	7.75	2.784	2.78	3.06	3.34	3.48	3.62	3.76	3.90	4.04
12.82	7.80	2.793	2.79	3.07	3.35	3.49	3.63	3.77	3.91	4.05
12.66	7.90	2.811	2.81	3.09	3.37	3.51	3.65	3.79	3.94	4.08
12.50	8.00	2.828	2.83	3.11	3.39	3.54	3.68	3.82	3.96	4.10
12.13	8.25	2.872	2.87	3.16	3.45	3.59	3.73	3.88	4.02	4.16
11.76	8.50	2.915	2.92	3.21	3.50	3.64	3.79	3.94	4.08	4.23
11.44	8.75	2.958	2.96	3.25	3.55	3.70	3.85	4.00	4.14	4.29
11.11	9.00	3.000	3.00	3.30	3.60	3.75	3.90	4.05	4.20	4.35
10.82	9.25	3.041	3.04	3.35	3.65	3.80	3.95	4.11	4.26	4.41
10.53	9.50	3.082	3.08	3.39	3.70	3.85	4.00	4.16	4.31	4.47
10.27	9.75	3.122	3.12	3.43	3.75	3.90	4.06	4.21	4.37	4.53
10.00	10.00	3.162	3.16	3.48	3.79	3.95	4.11	4.27	4.43	4.58
9.78	10.25	3.202	3.20	3.52	3.84	4.00	4.16	4.32	4.48	4.64
9.55	10.50	3.240	3.24	3.56	3.89	4.05	4.21	4.37	4.54	4.71
9.32	10.75	3.278	3.28	3.61	3.93	4.10	4.26	4.43	4.59	4.75
9.09	11.00	3.316	3.32	3.65	3.98	4.15	4.31	4.48	4.64	4.81
8.90	11.25	3.355	3.36	3.69	4.03	4.19	4.36	4.53	4.70	4.86
8.71	11.50	3.391	3.39	3.73	4.07	4.24	4.41	4.58	4.75	4.92
8.52	11.75	3.438	3.43	3.77	4.11	4.28	4.46	4.63	4.80	4.97

Roving Table—(Concluded)

Weight (Grains)	Hank Roving	Square Root	TWIST PER INCH							
			TWIST MULTIPLIERS							
			1.10	1.20	1.25	1.30	1.35	1.40	1.45	1.50
8.33	12.00	3.464	3.81	4.16	4.33	4.50	4.68	4.85	5.02	5.20
8.16	12.25	3.500	3.85	4.20	4.38	4.55	4.73	4.90	5.08	5.25
8.00	12.50	3.535	3.89	4.24	4.42	4.60	4.77	4.95	5.13	5.30
7.84	12.75	3.570	3.93	4.28	4.46	4.64	4.82	5.00	5.18	5.36
7.69	13.00	3.605	3.97	4.33	4.51	4.69	4.87	5.05	5.23	5.41
7.55	13.25	3.640	4.00	4.37	4.55	4.73	4.91	5.10	5.28	5.46
7.41	13.50	3.674	4.04	4.41	4.59	4.78	4.96	5.14	5.33	5.51
7.27	13.75	3.709	4.08	4.45	4.64	4.82	5.01	5.19	5.38	5.56
7.14	14.00	3.745	4.12	4.49	4.68	4.88	5.06	5.24	5.43	5.62
7.02	14.25	3.774	4.15	4.53	4.72	4.91	5.09	5.28	5.47	5.66
6.90	14.50	3.810	4.19	4.57	4.76	4.95	5.14	5.33	5.52	5.72
6.78	14.75	3.841	4.23	4.61	4.80	4.99	5.19	5.38	5.57	5.76
6.67	15.00	3.873	4.26	4.65	4.84	5.03	5.23	5.42	5.62	5.81
6.56	15.25	3.905	4.30	4.69	4.88	5.08	5.27	5.47	5.66	5.86
6.45	15.50	3.937	4.33	4.73	4.92	5.12	5.31	5.51	5.71	5.91
6.35	15.75	3.969	4.37	4.76	4.96	5.16	5.36	5.56	5.76	5.95
6.25	16.00	4.000	4.40	4.80	5.00	5.20	5.40	5.60	5.80	6.00
6.16	16.25	4.032	4.44	4.84	5.04	5.24	5.44	5.64	5.85	6.05
6.06	16.50	4.062	4.47	4.87	5.08	5.28	5.48	5.69	5.89	6.09
5.97	16.75	4.092	4.50	4.91	5.12	5.32	5.52	5.73	5.93	6.14
5.88	17.00	4.123	4.54	4.95	5.15	5.36	5.57	5.77	5.98	6.18
5.80	17.25	4.152	4.57	4.98	5.19	5.40	5.61	5.81	6.02	6.23
5.72	17.50	4.183	4.60	5.02	5.23	5.44	5.65	5.86	6.07	6.27
5.64	17.75	4.212	4.63	5.05	5.27	5.48	5.69	5.90	6.11	6.32
5.56	18.00	4.242	4.67	5.09	5.30	5.51	5.73	5.94	6.15	6.36
5.49	18.25	4.272	4.70	5.13	5.34	5.55	5.78	5.98	6.19	6.41
5.41	18.50	4.301	4.73	5.16	5.38	5.59	5.81	6.02	6.24	6.45
5.34	18.75	4.330	4.76	5.20	5.41	5.63	5.85	6.06	6.28	6.49
5.26	19.00	4.358	4.79	5.23	5.45	5.67	5.88	6.10	6.32	6.54
5.20	19.25	4.387	4.82	5.26	5.48	5.70	5.92	6.14	6.36	6.58
5.13	19.50	4.416	4.86	5.30	5.52	5.74	5.96	6.18	6.40	6.62
5.07	19.75	4.444	4.89	5.33	5.56	5.78	6.00	6.22	6.44	6.67
5.00	20.00	4.472	4.92	5.37	5.59	5.81	6.04	6.26	6.48	6.71
4.94	20.25	4.500	4.95	5.40	5.63	5.85	6.08	6.30	6.53	6.75
4.88	20.50	4.527	4.98	5.43	5.66	5.89	6.11	6.34	6.56	6.79
4.82	20.75	4.555	5.01	5.47	5.69	5.92	6.15	6.38	6.60	6.83
4.76	21.00	4.582	5.04	5.50	5.73	5.96	6.19	6.41	6.64	6.87
4.71	21.25	4.609	5.07	5.53	5.76	5.99	6.22	6.45	6.68	6.91
4.66	21.50	4.637	5.10	5.56	5.80	6.03	6.26	6.49	6.72	6.96
4.60	21.75	4.664	5.13	5.60	5.83	6.06	6.30	6.53	6.76	7.00
4.55	22.00	4.690	5.16	5.63	5.86	6.10	6.33	6.57	6.80	7.04
4.50	22.25	4.717	5.19	5.66	5.90	6.13	6.37	6.60	6.84	7.08
4.45	22.50	4.743	5.22	5.69	5.93	6.17	6.40	6.64	6.88	7.11
4.40	22.75	4.769	5.25	5.72	5.96	6.20	6.44	6.68	6.92	7.15
4.35	23.00	4.796	5.28	5.76	6.00	6.23	6.47	6.71	6.95	7.19
4.31	23.25	4.821	5.30	5.79	6.03	6.27	6.51	6.75	6.99	7.23
4.26	23.50	4.848	5.33	5.82	6.06	6.30	6.54	6.79	7.03	7.27
4.22	23.75	4.873	5.36	5.85	6.09	6.33	6.58	6.82	7.07	7.31
4.17	24.00	4.899	5.39	5.88	6.12	6.37	6.61	6.86	7.10	7.35
4.13	24.25	4.924	5.42	5.91	6.16	6.40	6.64	6.89	7.14	7.39
4.09	24.50	4.949	5.44	5.94	6.19	6.43	6.68	6.93	7.18	7.42
4.00	25.00	5.000	5.50	6.00	6.25	6.50	6.75	7.00	7.25	7.50

Conversion Table of Cotton Yarn Numbers

Metric Number	English Number	French Number	Austrian Number	Netherlands Number
1.	0.59	0.5	0.483	0.651
1.694	1.	0.8475	0.818	1.103
2.	1.18	1.	0.966	1.302
2.07	1.222	1.035	1.	1.3478
1.535	0.90629	.768	.74193	1.

Spinning Frame Production

To find 100 per cent Production per Spindle, in Pounds, from Speed of Front Roll:

$$\frac{\text{Circum. of Front Roll} \times \text{R. P. M.} \times \text{Minutes} \times \text{Hours}}{36 \text{ inches} \times 840 \times \text{No. of Yarn}} = \text{Lbs. per spindle.}$$

EXAMPLE:

$$\frac{3.1416 \times 90 \times 60 \times 54}{36 \times 840 \times 52} = .582 \text{ lbs. per spindle.}$$

Roving Frame Production

To find 100 per cent Production of Roving Frames, in Hanks, from Speed of Front Roll:

$$\frac{\text{Circum. of Front Roll} \times \text{R. P. M.} \times \text{Minutes} \times \text{Hours}}{36 \text{ inches} \times 840} = \text{Hanks per spindle.}$$

EXAMPLE: Assume speed of front roll 80 r. p. m.

Assume Circum. of front roll 3.927 inches.

$$\frac{3.927 \times 80 \times 60 \times 54}{36 \times 840} = 33.66 \text{ Hanks per spindle.}$$

Yarn Number

To find the yarn number or count:

$$\frac{\text{Number of yards in Sample} \times \text{Grains in a Pound}}{\text{Weight of sample in grains} \times \text{standard}} = \text{Yarn Number.}$$

Or for cotton yarn using a 120 yard skein:

$$\frac{120 \times 7,000}{\text{Weight of sample} \times 840} = \frac{1,000}{\text{Weight of sample in grains}} = \text{Yarn Number.}$$

Square Root of the Numbers or Counts, from One to Two Hundred Hanks in the Pound, with the Twist per Inch for Different Kinds of Yarns

The heavy figures opposite No. 1 show the multipliers for the square root of all numbers throughout the tables.

Counts or Numbers	Square Root	Ordinary Warp Twist	Low Warp Twist	Ordinary Mule Twist	Filling Twist	Ordinary Hosiery Twist	Medium Hosiery Twist
1	1.00	4.75	4.20	3.75	3.25	2.75	2.50
2	1.41	6.72	5.65	5.30	4.60	3.88	3.53
3	1.73	8.23	6.92	6.49	5.62	4.76	4.33
4	2.00	9.50	8.00	7.50	6.50	5.50	5.00
5	2.23	10.62	8.94	8.37	7.26	6.14	5.59
6	2.44	11.64	9.79	9.18	7.96	6.73	6.12
7	2.64	12.57	10.58	9.92	8.59	7.27	6.61
8	2.82	13.44	11.31	10.50	9.19	7.77	7.07
9	3.00	14.25	12.00	11.25	9.75	8.25	7.50
10	3.16	15.02	12.64	11.85	10.27	8.79	7.90
11	3.31	15.75	13.26	12.43	10.77	9.12	8.29
12	3.46	16.45	13.85	12.99	11.25	9.52	8.66
14	3.74	17.77	14.96	14.03	12.16	10.28	9.35
16	4.00	19.00	16.00	15.00	13.00	11.00	10.00
18	4.24	20.15	16.97	15.90	13.78	11.66	10.60
20	4.47	21.24	17.88	16.77	14.53	12.29	11.18
22	4.69	22.28	18.76	17.58	15.24	12.89	11.73
24	4.89	23.27	19.59	18.37	15.92	13.47	12.25
26	5.09	24.22	20.39	19.11	16.57	14.02	12.75
28	5.29	25.13	21.16	19.84	17.19	14.55	13.23
30	5.47	26.02	21.90	20.53	17.80	15.06	13.69
35	5.91	28.10	23.66	22.18	19.22	16.27	14.79
40	6.32	30.04	25.29	23.71	20.55	17.39	15.81
45	6.70	31.86	26.83	25.15	21.80	18.44	16.77
50	7.07	33.59	28.28	26.51	22.98	19.44	17.68
55	7.41	35.23	29.66	27.81	24.10	20.39	18.54
60	7.74	36.79	30.98	29.04	25.17	21.30	19.36
65	8.06	38.30	32.24	30.23	26.20	22.17	—
70	8.36	39.74	33.46	31.37	27.19	23.00	—
75	8.66	41.14	34.64	32.47	28.14	23.81	—
80	8.94	42.49	35.77	33.54	29.06	24.59	—
85	9.21	43.79	36.87	34.57	29.96	25.35	—
90	9.48	45.06	37.94	35.47	30.83	26.08	—
95	9.74	46.30	38.98	36.55	31.67	26.80	—
100	10.00	47.50	40.00	37.50	32.50	27.50	—
110	10.48	49.82	41.95	39.33	34.08	28.84	—
120	10.95	52.03	43.81	41.07	35.60	30.12	—
130	11.40	54.16	45.60	42.75	37.05	31.35	—
140	11.83	56.20	47.32	44.37	38.47	32.54	—
150	12.24	58.04	48.98	45.92	39.80	33.68	—
160	12.64	60.04	50.59	47.43	41.10	34.78	—
170	13.03	61.89	52.15	48.89	42.37	35.85	—
180	13.41	63.70	53.66	50.31	43.60	36.89	—
190	13.78	65.46	55.13	51.69	44.79	37.90	—
200	14.14	67.17	56.56	53.03	45.96	38.89	—

Comparative Yarn Tables

Spun Silk and Cotton Scale	Yards per Pound	Yards per Ounce	Scale in Legal Deniers	Linen or Wool (Cut System)	Worsted Scale	Woolen Run Scale
1	840	52 $\frac{1}{2}$	5,314.915	2,800	1 $\frac{1}{2}$	.525
2	1,680	105	2,657.457	5,600	3	1.05
3	2,520	157 $\frac{1}{2}$	1,771.638	8,400	4 $\frac{1}{2}$	1.58
4	3,360	210	1,328.729	11,200	6	2.10
5	4,200	262 $\frac{1}{2}$	1,062.983	14,000	7 $\frac{1}{2}$	2.63
6	5,040	315	885.819	16,800	9	3.15
7	5,880	367 $\frac{1}{2}$	759.274	19,600	10 $\frac{1}{2}$	3.68
8	6,720	420	664.364	22,400	12	4.20
9	7,560	472 $\frac{1}{2}$	590.546	25,200	13 $\frac{1}{2}$	4.73
10	8,400	525	531.491	28,000	15	5.25
11	9,240	577 $\frac{1}{2}$	483.172	30,800	16 $\frac{1}{2}$	5.78
12	10,080	630	442.910	33,600	18	6.30
13	10,920	682 $\frac{1}{2}$	408.839	36,400	19 $\frac{1}{2}$	6.83
14	11,760	735	379.637	39,200	21	7.35
15	12,600	787 $\frac{1}{2}$	354.328	42,000	22 $\frac{1}{2}$	7.88
16	13,440	840	332.182	44,800	24	8.40
17	14,280	892 $\frac{1}{2}$	312.642	47,600	25 $\frac{1}{2}$	8.93
18	15,120	945	295.273	50,400	27	9.45
19	15,960	997 $\frac{1}{2}$	279.732	53,200	28 $\frac{1}{2}$	9.98
20	16,800	1,050	265.746	56,000	30	10.50
21	17,640	1,102 $\frac{1}{2}$	253.091	58,800	31 $\frac{1}{2}$	11.03
22	18,480	1,155	241.586	61,600	33	11.55
23	19,320	1,207 $\frac{1}{2}$	231.083	64,400	34 $\frac{1}{2}$	12.08
24	20,160	1,260	221.455	67,200	36	12.60
25	21,000	1,312 $\frac{1}{2}$	212.597	70,000	37 $\frac{1}{2}$	13.13
26	21,840	1,365	204.420	72,800	39	13.65
27	22,680	1,417 $\frac{1}{2}$	196.849	75,600	40 $\frac{1}{2}$	14.18
28	23,520	1,470	189.818	78,400	42	14.70
29	24,360	1,522 $\frac{1}{2}$	183.273	81,200	43 $\frac{1}{2}$	15.23
30	25,200	1,575	177.164	84,000	45	15.75
31	26,040	1,627 $\frac{1}{2}$	171.449	86,800	46 $\frac{1}{2}$	16.28
32	26,880	1,680	166.091	89,600	48	16.80
33	27,720	1,732 $\frac{1}{2}$	161.057	92,400	49 $\frac{1}{2}$	17.33
34	28,560	1,785	156.321	95,200	51	17.85
35	29,400	1,837 $\frac{1}{2}$	151.855	98,000	52 $\frac{1}{2}$	18.38
36	30,240	1,890	147.637	100,800	54	18.90
37	31,080	1,942 $\frac{1}{2}$	143.646	103,600	55 $\frac{1}{2}$	19.43
38	31,920	1,995	139.866	106,400	57	19.95
39	32,760	2,047 $\frac{1}{2}$	136.280	109,200	58 $\frac{1}{2}$	20.48
40	33,600	2,100	132.873	112,000	60	21.00
41	34,440	2,152 $\frac{1}{2}$	129.632	114,800	61 $\frac{1}{2}$	21.53
42	35,280	2,205	126.546	117,600	63	22.05
43	36,120	2,257 $\frac{1}{2}$	123.603	120,400	64 $\frac{1}{2}$	22.58
44	36,960	2,310	120.793	123,200	66	23.10
45	37,800	2,362 $\frac{1}{2}$	118.109	126,000	67 $\frac{1}{2}$	23.62
46	38,640	2,415	115.542	128,800	69	24.15
47	39,480	2,467 $\frac{1}{2}$	113.083	131,600	70 $\frac{1}{2}$	24.68
48	40,320	2,520	110.727	134,400	72	25.20
49	41,160	2,572 $\frac{1}{2}$	108.468	137,200	73 $\frac{1}{2}$	—
50	42,000	2,625	106.298	140,000	75	—

Comparative Yarn Tables—(Concluded)

Spun Silk and Cotton Scale	Yards per Pound	Yards per Ounce	Scale in Legal Deniers	Linen or Wool (Cut System)	Worsted Scale
52	43,680	2,730	102.210	145.600	78
54	45,360	2,835	98.425	151.200	81
56	47,040	2,940	94.909	156.800	84
58	48,720	3,045	91.637	162.400	87
60	50,400	3,150	88.582	168.000	90
62	52,080	3,255	85.725	173.600	93
64	53,760	3,360	83.045	179.200	96
66	55,440	3,465	80.529	184.800	99
68	57,120	3,570	78.161	190.400	102
70	58,800	3,675	75.927	196.000	105
72	60,480	3,780	73.818	201.600	108
74	62,160	3,885	71.823	207.200	111
76	63,840	3,990	69.933	212.800	114
78	65,520	4,095	68.140	218.400	117
80	67,200	4,200	66.436	224.000	120
90	75,600	4,725	59.055	252.000	135
100	84,000	5,250	53.149	280.000	150
110	92,400	5,775	48.317	308.000	—
120	100,800	6,300	44.291	336.000	—
130	109,200	6,825	40.884	364.000	—
140	117,600	7,350	37.964	392.000	—
150	126,000	7,875	35.433	420.000	—
160	134,400	8,400	33.218	448.000	—
170	142,800	8,925	31.264	476.000	—
180	151,200	9,450	29.527	504.000	—
190	159,600	9,975	27.973	532.000	—
200	168,000	10,500	26.575	560.000	—
225	189,000	11,812 $\frac{1}{2}$	23.622	630.000	—
250	210,000	13,125	21.260	700.000	—
275	231,000	14,437 $\frac{1}{2}$	19.327	770.000	—
300	252,000	15,750	17.716	840.000	—
325	273,000	17,062 $\frac{1}{2}$	16.354	910.000	—
350	294,000	18,375	15.186	980.000	—
375	315,000	19,687 $\frac{1}{2}$	14.173	1,050.000	—
400	336,000	21,000	13.287	1,120.000	—
425	357,000	22,312 $\frac{1}{2}$	12.506	1,190.000	—
450	378,000	23,625	11.811	1,260.000	—
475	399,000	24,937 $\frac{1}{2}$	11.189	1,330.000	—
500	420,000	26,250	10.630	1,400.000	—
525	441,000	27,562 $\frac{1}{2}$	10.124	1,470.000	—
550	462,000	28,875	9.664	1,540.000	—
575	483,000	30,187 $\frac{1}{2}$	9.244	1,610.000	—
600	504,000	31,500	8.858	1,680.000	—

Table for Use in Converting Linear Yards into Square Yards

Bureau of Census

The following table is made out in parallel columns. The first column refers to the width, in inches, of the woven products while the opposite figure represents the "equivalent" in square yards.

To convert linear yards to square yards, take the "equivalent" opposite the number representing the width in inches and multiply by the number of linear yards. Example: To convert 1,386,520 linear yards of cloth 38½ inches wide into square yards — the "equivalent" of 38½ inches is 1.069, which multiplied by 1,386,520 gives 1,482,190 square yards.

Width in Inches	Equiv- alent Square Yards										
12½	.347	28½	.792	44½	1.236	60½	1.681	76½	2.125	92½	2.569
13	.361	29	.806	45	1.250	61	1.694	77	2.139	93	2.583
13½	.375	29½	.819	45½	1.264	61½	1.708	77½	2.163	93½	2.597
14	.389	30	.833	46	1.278	62	1.722	78	2.167	94	2.611
14½	.403	30½	.847	46½	1.292	62½	1.736	78½	2.181	94½	2.625
15	.417	31	.861	47	1.306	63	1.750	79	2.194	95	2.639
15½	.431	31½	.875	47½	1.319	63½	1.764	79½	2.208	95½	2.653
16	.444	32	.889	48	1.333	64	1.778	80	2.222	96	2.667
16½	.458	32½	.903	48½	1.347	64½	1.792	80½	2.236	96½	2.681
17	.472	33	.917	49	1.361	65	1.806	81	2.250	97	2.694
17½	.486	33½	.931	49½	1.375	65½	1.819	81½	2.264	97½	2.708
18	.500	34	.944	50	1.389	66	1.833	82	2.278	98	2.722
18½	.514	34½	.958	50½	1.403	66½	1.847	82½	2.292	98½	2.736
19	.528	35	.972	51	1.417	67	1.861	83	2.306	99	2.750
19½	.542	35½	.986	51½	1.431	67½	1.875	83½	2.319	99½	2.764
20	.556	36	1.000	52	1.444	68	1.889	84	2.333	100	2.778
20½	.569	36½	1.014	52½	1.458	68½	1.903	84½	2.347	100½	2.792
21	.583	37	1.028	53	1.472	69	1.917	85	2.361	101	2.806
21½	.597	37½	1.042	53½	1.486	69½	1.931	85½	2.375	101½	2.819
22	.611	38	1.056	54	1.500	70	1.944	86	2.389	102	2.833
22½	.625	38½	1.069	54½	1.514	70½	1.958	86½	2.403	102½	2.847
23	.639	39	1.083	55	1.528	71	1.972	87	2.417	103	2.861
23½	.653	39½	1.097	55½	1.542	71½	1.986	87½	2.431	103½	2.875
24	.667	40	1.111	56	1.556	72	2.000	88	2.444	104	2.889
24½	.681	40½	1.125	56½	1.569	72½	2.014	88½	2.458	104½	2.903
25	.694	41	1.139	57	1.583	73	2.028	89	2.472	105	2.917
25½	.708	41½	1.153	57½	1.597	73½	2.042	89½	2.486	105½	2.931
26	.722	42	1.167	58	1.611	74	2.056	90	2.500	106	2.944
26½	.736	42½	1.181	58½	1.625	74½	2.069	90½	2.514	106½	2.958
27	.750	43	1.194	59	1.639	75	2.083	91	2.528	107	2.972
27½	.764	43½	1.208	59½	1.653	75½	2.097	91½	2.542	107½	2.986
28	.778	44	1.222	60	1.667	76	2.111	92	2.556	108	3.000

SOUND HUMIDIFYING PRACTICE*

Evaporative Capacity Required

The capacity of a humidifier system should be sufficient to evaporate water at a rate which will produce the required relative humidity in every department even when window transoms are opened sufficiently to avoid discomfort to operatives during the hottest weather which commonly prevails in summer. Humidifiers should have sufficient evaporative capacity to maintain relative humidities not less than and dry bulb temperatures not greater than the following:

For Weaving	85% relative humidity at 84° F.
Spinning and Twisting	{ from 55% at 90° F. to 70% at 87° F.
Spooling, Winding, Warping and Cloth Room	70% at 87° F.
Carding, Combing and Roving	{ from 55% at 90° F. to 60% at 89° F.

Outside conditions of temperature and humidity to be expected during typically hot weather in a locality should be carefully determined by a competent engineer and specified in terms of dry bulb temperature and wet bulb depression.

Recommendations to Purchasers

In considering the purchase of equipment, the owner or his engineer should first state specifically the scale of humidities and temperatures above recommended or its proper equivalent.

Final tenders in the form of contract proposals should be taken up for decision only after all competing bids have been reduced to identical specifications.

Any tender in which the evaporative capacity specified and guaranteed is materially less than the rest *must be regarded as representing correspondingly low value. Evaporative capacity which can be relied upon is the only safe yardstick for comparing values in installations of distributed humidifiers.* Tenders should therefore be carefully compared not only in respect to gross cost of installation and maximum power consumption but also in respect to cost of installation and power consumption per gallon of capacity. Guaranteed delivery of the stipulated evaporative capacity and that power consumption will not exceed a specified maximum are essential to protection of the purchaser.

If the apparatus finally purchased should fail to deliver the guaranteed capacity, the contractor should not only furnish such additional apparatus as may prove necessary to attain the capacity at his own expense, but should also be properly penalized if power consumption is thereby increased beyond the specified maximum.

*See complete Report of the Committee on Humidifying Practice, October, 1929.

Maximum Limits of Humidity at Given Temperatures when Artificial Humidification is employed

General Laws, chapter 149, section 110, Commonwealth of Massachusetts

I Dry Bulb Thermometer Readings (Degrees Fahr.)	II Wet Bulb Thermometer Readings (Degrees Fahr.)	III Percentage of Humidity	I Dry Bulb Thermometer Readings (Degrees Fahr.)	II Wet Bulb Thermometer Readings (Degrees Fahr.)	III Percentage of Humidity
60	58	88	78	73.5	77
61	59	88	79	74.5	77.5
62	60	88	80	75.5	77.5
63	61	88	81	76	76
64	62	88	82	76.5	74
65	63	88	83	77.5	74
66	64	88	84	78	72
67	65	88	85	79	72
68	66	88	86	80	72
69	67	88	87	80.5	71
70	68	88	88	81.5	71
71	68.5	85.5	89	82.5	71
72	69	84	90	83	69
73	70	84	91	83.5	68
74	70.5	81.5	92	84.5	68
75	71.5	81.5	93	85.5	68
76	72	79	94	86	68
77	73	79	95	87	66

Grades and Colors of the Universal Standards for American Upland Cotton

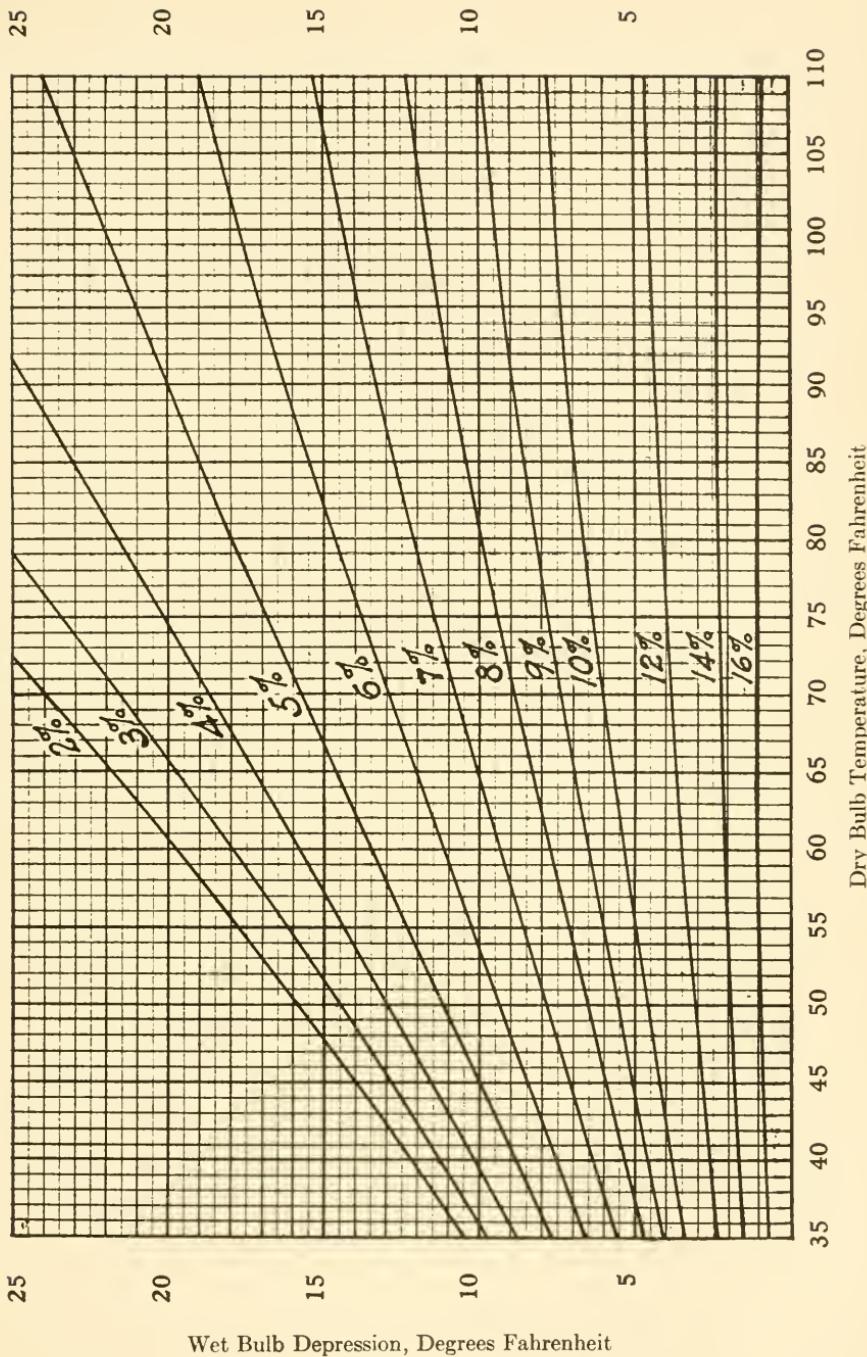
United States Department of Agriculture Circular 278

Blue-stained	Gray	Standards for Grades of Upland Cotton, White	Spotted	Yellow-tinged	Light-stained	Yellow-stained
		1 or midling fair				
		2 or strict good midling		2 T.		
3 B.	3 G.	3 or good midling	3 Sp.	3 T.	3 L. S.	3 S.
4 B.	4 G.	4 or strict midling	4 Sp.	4 T.	4 L. S.	4 S.
5 B.	5 G.	5 or midling	5 Sp.	5 T.	5 L. S.	5 S.
		6 or strict low midling	6 Sp.	6 T.		
		7 or low midling	7 Sp.	7 T.		
		8 or strict good ordinary				
		9 or good ordinary				

Symbols in heavy type denote grades and colors for which practical forms of the official cotton standards are prepared. Symbols in italics represent the designations of cotton which in color is between practical forms.

The grades shown above the black lines are deliverable on future contracts made in accordance with section 5 of the United States Cotton Futures Act. Those below the line are untenderable on such contracts.

Cotton Regain
 Theoretical Regain for Raw Cotton
 Courtesy Parks-Cramer Company



Wet Bulb Depression, Degrees Fahrenheit

Psychrometric Humidity Table for Use with Sling Psychrometer only

Courtesy Parks-Cramer Company

TEMP OF DRY BULB	Relative Humidities—Large Figures												Actual Humidities—Small Figures																							
	WET BULB DEPRESSION																																			
F°	0°	1°	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24											
60	100	94	89	83	78	73	68	63	58	53	48	43	39	34	30	26	21	17	13	9	5	1														
61	100	94	89	83	78	73	68	63	58	53	49	44	40	35	31	27	23	18	14	10	7	3														
62	100	94	89	83	78	74	69	64	59	54	50	45	41	36	32	28	24	20	16	12	8	4	1													
63	100	95	89	83	79	74	69	64	60	55	50	46	42	37	33	29	25	21	17	13	10	6	2	0.1												
64	100	95	90	84	79	74	70	65	60	56	51	47	43	38	34	30	26	22	18	15	11	7	4													
65	100	95	90	85	80	75	70	66	61	56	52	48	44	39	35	31	27	24	20	16	12	9	5	2												
66	100	95	90	85	80	75	71	66	61	57	53	49	45	40	36	32	29	25	21	17	13	10	6	2	0.1											
67	100	95	90	85	80	75	71	66	61	58	53	49	45	41	37	33	30	26	22	18	14	11	7	4	0.1											
68	100	95	90	85	80	76	71	67	62	58	54	50	46	42	38	34	31	27	23	20	16	13	10	6	3											
69	100	95	90	85	81	76	72	67	63	59	55	51	47	43	39	35	32	28	24	21	18	14	10	6	3	0.4										
70	100	95	90	86	81	77	72	68	64	60	55	51	48	44	40	36	32	29	25	22	19	15	12	8	5	2	0.3									
71	100	95	90	86	81	77	72	68	64	60	56	52	48	45	41	37	33	30	27	23	20	17	14	11	7	4	0.6									
72	100	95	91	86	82	77	73	69	65	61	57	53	49	45	42	38	34	31	28	24	21	18	15	12	9	6	3									
73	100	95	91	86	82	78	73	69	65	61	57	53	50	46	42	39	35	32	29	25	22	19	16	13	10	7	4									
74	100	95	91	86	82	78	74	69	65	61	58	54	50	47	43	39	36	33	29	26	23	20	17	14	11	8	5									
75	100	96	91	86	82	79	74	70	66	62	58	54	51	47	44	40	37	34	30	27	24	21	18	15	12	9	6	3								
76	100	96	91	87	82	78	74	70	66	62	59	55	51	48	44	41	38	34	31	28	25	22	19	16	13	10	7	4								
77	100	96	91	87	83	79	74	71	67	63	59	56	52	48	45	42	39	35	32	29	26	23	20	17	14	11	8	5								
78	100	96	91	87	83	79	75	71	67	63	59	56	52	49	45	42	39	36	33	30	27	24	21	18	16	13	10	7								
79	100	96	91	87	83	79	75	71	68	64	60	57	53	50	46	43	40	37	34	31	28	25	22	19	17	14	11	8								
80	100	96	91	87	83	79	75	72	68	64	61	57	54	50	47	44	41	38	35	32	29	26	23	20	18	15	12	9								
81	100	96	92	88	84	80	76	72	68	65	61	58	55	51	48	45	41	39	36	33	30	27	24	21	19	16	13	10	7							
82	100	96	92	88	84	80	76	72	69	65	61	58	55	51	48	45	42	39	36	33	30	28	25	22	20	18	15	12	9							
83	100	96	92	88	84	80	76	73	69	65	62	59	56	52	49	46	42	40	37	34	32	29	26	23	20	18	15	12	9							
84	100	96	92	88	84	80	76	73	69	66	62	59	56	52	49	46	43	40	37	34	32	29	26	23	21	19	16	13	10							
85	100	96	92	88	84	80	77	73	69	66	63	60	57	53	50	47	44	41	38	35	33	30	27	24	21	19	16	13	10							
86	100	96	92	88	84	81	77	73	70	66	63	60	57	53	50	47	44	42	39	36	34	32	29	26	23	21	19	16	13	10						
87	100	96	92	88	85	81	77	74	70	67	64	61	57	54	51	48	45	43	40	37	34	32	29	27	24	21	19	16	13	10						
88	100	96	92	88	85	81	77	74	71	67	64	61	57	54	51	48	45	43	40	37	35	32	29	27	24	21	19	16	13	10						
89	100	96	92	88	85	81	77	74	71	68	64	61	57	54	51	48	45	43	40	37	35	33	30	28	25	23	20	18	15	12	9					
90	100	96	92	89	85	81	78	74	71	68	65	62	58	55	52	49	47	44	41	39	36	34	31	29	26	24	21	19	16	13	10					
91	100	96	92	89	85	82	78	75	72	68	65	62	59	56	53	50	48	45	42	40	37	35	32	30	28	25	23	20	18	15	12	9				
92	100	96	92	89	85	82	78	75	72	68	65	62	59	56	53	50	48	45	42	40	37	35	33	31	29	26	24	21	19	16	13	10				
93	100	96	92	89	85	82	79	75	72	69	66	63	60	57	54	51	49	46	43	41	39	37	35	33	31	29	26	24	21	19	16	13	10			
94	100	96	92	89	85	82	79	75	72	69	66	63	60	57	54	51	49	46	43	41	39	36	33	31	29	26	24	21	19	16	13	10				
95	100	96	93	89	85	82	79	75	72	69	66	63	60	57	54	51	49	46	43	41	39	36	34	31	29	26	24	21	19	16	13	10				
96	100	96	93	89	86	82	79	76	73	69	66	63	60	58	55	52	50	47	44	42	40	37	35	33	30	28	26	24	21	19	16	13	10			
97	100	96	93	89	86	82	79	76	73	69	66	63	60	58	55	52	50	47	44	42	40	37	35	33	30	28	26	24	21	19	16	13	10			
98	100	96	93	89	86	83	79	76	73	70	67	64	61	58	55	52	50	48	45	43	40	38	36	34	32	30	28	26	24	21	19	16	13	10		
99	100	96	93	89	86	83	80	77	73	70	68	65	62	59	56	54	51	49	46	44	41	39	37	35	33	31	29	26	24	21	19	16	13	10		

RELATIVE HUMIDITIES IN PERCENTAGES (%) CTUAL HUMIDITIES IN GRAMS OF MOISTURE PER CUBIC FOOT OF AIR

Percent cotton regain 11 10 9 8 7 6 5

**United States Government General Specification for Textile Materials
(Methods of Physical and Chemical Tests)**

F. S. B. Specification No. 345A.

I. GENERAL STATEMENT

These methods were prepared for use in making determinations on the requirements specified in textile specifications promulgated by the Federal Specifications Board, so that variations introduced by different test methods may be eliminated. They are not intended to include all the textile-test methods in use in the textile industry.

Additions and revisions will be made as the necessity arises.

The word "fabric" as used herein applies only to woven fabrics except where otherwise specifically stated.

II. ATMOSPHERIC CONDITIONS

Physical tests may be made under prevailing atmospheric conditions except in the settlement of disputes where moisture is an influencing factor in tests for breaking strength, thread count, weight, width, length, etc. Such tests shall then be made upon material having normal moisture content, obtained by exposure for at least four hours to an atmospheric condition of 65 per cent relative humidity at 70° F.

The effect of humidity is a decided variable in these tests, depending on the construction, finishing, sizing, etc. In general, a high relative humidity will increase all weight results, and in breaking-strength results will show an increase for vegetable fibers and a decrease for animal fibers. The manufacturer should note the humidity on a sling psychrometer at the time tests are made to establish whether his material conforms to these specifications and take into consideration the above facts.

III. FIBER IDENTIFICATION AND QUANTITATIVE DETERMINATIONS

1. **COTTON.**—In specifications calling for cotton fibers no further test is needed than the visual or microscopical examination of the fibers as pulled from the specimen.

2. **WOOL.**—Boil not less than a 5 g specimen in not less than one hundred times its weight of a 5 per cent solution of either sodium or potassium hydroxide for not less than 10 minutes. If any residue remains, examine it for its nature and amount. The presence of fibers other than wool in excess of 1 per cent shall be cause for rejection.

3. **MIXTURES OF WOOL AND COTTON.**—*(a) Cotton warp-wool filling.*—Remove the cotton warp and test the filling for wool as in Section

III, 2. If a limit as to the proportion of cotton is given, test as in Section III, 3, (b).

(b) *Cotton-wool mixtures.*—Remove the sizing and finishing materials by (1) extracting in ether, (2) boiling in distilled water for 10 minutes, (3) treating in a hot (90° to 95° C.) solution of sodium carbonate (0.5 per cent) for 30 minutes, (4) rinsing in distilled water, (5) immersing in a hot (85° to 90° C.) solution of hydrochloric acid (0.5 per cent) for 30 minutes, (6) rinsing in distilled water, (7) neutralizing in a 1 per cent solution of sodium carbonate at room temperature, (8) rinsing thoroughly in distilled water and drying. All weighings shall be made after the specimen has been conditioned at 65 per cent relative humidity and 70° F. Weighings shall be made to the nearest milligram or equivalent accuracy. Boil (gently) the specimen in at least one hundred times its weight of a 5 per cent solution of potassium hydroxide for 10 to 15 minutes. Rinse in hot distilled water, then in a 5 per cent solution of acetic acid and again in distilled water. Filter. (The use of either a Buechner funnel attached to a suction flask or a Gooch crucible is desirable.) Dry in air. Condition. The per cent of cotton present shall be calculated as follows:

$$\frac{\text{Residue weight} \times 100}{97} = \text{Weight of cotton}$$

$$\frac{\text{Weight of cotton} \times 100}{\text{Original weight of specimen}} = \text{Per cent of cotton.}$$

IV. BREAKING STRENGTH, GRAB METHOD (1 by 1 by 3 inches)

Specimens 6 inches long by 4 inches wide shall be cut 3 to 5 in the direction of the warp and 3 to 5 in the direction of the filling, respectively. Care shall be taken that no two test specimens include the same threads, except for retest as specified below. No specimen for testing should be taken nearer the selvage than one-tenth the width of the material.

The machine used shall be of the inclination balance type. The limits of capacity of the machine shall be such that the angle of swing of the pendulum shall be under 45° from the vertical and over 4° from the vertical. The lower or pulling jaw shall travel at a uniform rate of 12 inches per minute under no load. The distance between jaws shall be 3 inches at start of test. The inside or back half of each jaw shall be 2 inches or more in width; the other half shall be 1 inch in width. Jaws shall have a smooth and flat surface with edges slightly rounded to prevent cutting. The results of the test of each direction shall be averaged. If a specimen slips in the jaw, breaks in the jaw,

breaks at the edge of the jaw, or for any reason due to faulty operation the result falls markedly below the general average, the result shall be disregarded, another specimen taken from the same threads, and the result of this break included in the average.

V. BREAKING STRENGTH, STRIP METHOD

Test specimens approximately 6 inches long by " a " inches (see Table 1) wide shall be cut, 3 to 5 in the direction of the warp and 3 to 5 in the direction of the filling, respectively.

TABLE 1.—*Width of specimen before raveling (strip method)*

Threads per inch	Width " a "—Inches
Over 80	$1\frac{1}{8}$
50 to 80	$1\frac{1}{4}$
Under 50	$1\frac{1}{2}$

Each specimen shall be raveled to exactly 1 inch by taking from each side approximately the same number of threads. Care shall be taken that no test specimens include the same threads, except for retest, as specified below. No specimen for testing should be taken nearer the selvage than one-tenth the width of the material.

The machine used shall be of the inclination balance type. The limits of capacity of the machine shall be such that the angle of swing of the pendulum shall be under 45° from the vertical and over 4° from the vertical. The lower or pulling jaw shall travel at a uniform rate of 12 inches per minute under no load. The distance between jaws shall be 3 inches at the start of the test. The width of the jaws shall be $1\frac{1}{2}$ inches or more. Jaws shall have a smooth and flat surface with edges slightly rounded to prevent cutting. The results of the tests in each direction shall be averaged. If a specimen slips in the jaw, breaks in the jaw, breaks at the edge of the jaw, or for any reason due to faulty operation the result falls markedly below the general average, the result shall be disregarded, another specimen taken from the same threads, and the result of this break included in the average.

VI. WEIGHT PER SQUARE YARD

The weight per square yard may be determined by any one of the following three methods. In case of dispute method No. 1 shall be used as an umpire method and the length shall be a cut, roll, or bolt.

METHOD No. 1.—Take a measured portion of the material and weigh. Calculate from this area the weight per square yard. Average 3 to 5 tests.

METHOD No. 2.—Cut from the sample a specimen 2 by 2 inches using a steel die. No specimen for testing shall be taken nearer

the selvage than one-tenth of the width of the material. Weigh on a balance adjusted to read the weight of the material in ounces per square yard. Average 3 to 5 tests.

METHOD No. 3.—Take 1 yard of the sample. Weigh, and if the width is not 1 yard calculate the weight per square yard. Average 2 tests.

VII. WEIGHT PER LINEAR YARD

The weight per linear yard shall be computed from the weight per square yard, as follows:

$$\frac{\text{Weight per square yard} \times \text{width}}{36} = \text{Weight per linear yard.}$$

VIII. THREAD COUNT

The actual number of threads in 1 inch of width shall be counted in each direction at 3 to 5 different places in the cloth and the results averaged for each direction. Where the thread count is under 25, the actual number of threads in 3 inches shall be counted for each direction at 3 to 5 different places in the cloth and the results reduced to threads per inch and averaged for each direction. When the size of the sample permits, these counts shall be taken about 6 inches apart. No warp reading should be taken nearer the selvage than one-tenth the width of the fabric.

When the fabric is 3 inches wide or less all the warp threads shall be counted and the results calculated to threads per inch.

IX. WIDTH

The width shall be determined by laying the material on a flat surface without tension, then measuring the distance perpendicular to the length from edge to edge to an accuracy of one-sixteenth inch. Three to five measurements shall be taken at different places in the sample and the results averaged.

X. FASTNESS TESTS

1. FASTNESS TO LIGHT.—The specimen shall be subjected to one of the following tests. In case of dispute method (a) shall be used.

(a) Exposure for 48 hours to a carbon arc lamp which is operated on a 220-volt circuit with a power input of approximately 2,700 watts.

(b) Exposure for 48 hours to a mercury vapor lamp, with glass between light and specimen, which is operated on a 200-volt circuit with a power input of approximately 400 watts.

(c) Exposure for 30 days continuously at an angle of 45° from the horizontal position facing south in a cabinet covered with a good grade of window glass, approximately one-eighth inch thick, and open at both sides in such a way as to allow free access of air to the specimens. The distance between the specimens and the glass shall be between one-half and one inch.

(d) Exposure for three hours to a mercury quartz lamp. The exposed portion shall be compared with the original material and rated on the following basis:

Good, no appreciable alteration of color.

Fair, appreciable but not objectionable alteration of color.

Poor, objectionable alteration of color.

The judgment of the operator may be aided by comparison with standard samples, or material from former satisfactory purchases if these are available. They should be subjected to the above tests along with the sample under test.

A standard sample may be established for a textile material with regard to degree of fastness, provided this sample complies with the degree of fastness given in the specification for that material, as judged on the basis given above. Where a standard sample has been so established, the fastness of the material should be at least equal to that of the standard sample when subjected to the same exposure conditions.

2. FASTNESS TO LAUNDERING (WASHING) (COTTONS).—Immerse the material, braided with an equal weight of white cotton or sewed onto a piece of white cotton cloth in a solution containing one-tenth per cent neutral soap and one-tenth per cent soda at 160° F. Treat for 30 minutes, then either extract or run through squeeze rolls. Rinse well in water at 100° F. until soap and alkali are removed; treat for 10 minutes at 105° F. in one-twentieth per cent acetic acid; rinse, extract, and dry in air.

The soap should be a good grade of 88 per cent chip tallow soap and the soda ash the standard 58 per cent commercial product. The volume of solution should be about fifty times the weight of the goods.

The treated specimen shall be compared with the original material and rated on the following basis:

Good, no appreciable alteration of color.

Fair, appreciable but not objectionable alteration of color.

Poor, objectionable alteration of color.

The white material braided with or sewed onto the specimen shall

be examined to ascertain if any bleeding of the color occurred. Discoloration of the solution by the dye should be noted.

The judgment of the operator may be aided by comparison with standard samples, or material from former satisfactory purchases if these are available. They should be subjected to the above tests along with the sample under test.

A standard sample may be established for a textile material with regard to degree of fastness, provided this sample complies with the degree of fastness given in the specification for that material, as judged on the basis given above. Where a standard sample has been so established, the fastness of the material should be at least equal to that of the standard sample when subjected to the same exposure conditions.

3. FASTNESS TO WATER.—Immerse the specimen braided with an equal weight of white cotton or sewed onto a piece of white cotton cloth in tap water at room temperature for one hour.

Examine the white cotton to determine bleeding of the color and note if the water has been discolored.

XI. SHRINKAGE TESTS (COTTON CLOTH)

On a specimen at least 12 inches square mark off a rectangle with edges parallel to the warp and filling directions and with a border of approximately 1 inch. Boil for 30 minutes. Treat in water at room temperature for 30 minutes. Extract and dry in air. Press. Measure marked-off portion. Compute warp and filling shrinkages separately.

XII. DETERMINATION OF PER CENT SIZING OR FINISHING MATERIALS (COTTON)

Weigh a specimen of about 5 g. Remove the sizing and finishing materials by (1) extracting with ether, (2) boiling in distilled water for 10 minutes, (3) treating in a hot (90° to 95° C.) solution of sodium carbonate (0.5 per cent) for 30 minutes, (4) rinsing in distilled water, (5) immersing in a hot (85° to 90° C.) solution of hydrochloric acid (0.5 per cent) for 30 minutes, (6) rinsing in distilled water, (7) neutralizing in a 1 per cent solution of sodium carbonate at room temperature, (8) rinsing thoroughly in distilled water, and (9) drying. Weigh and compute per cent of sizing and finishing materials, using the weight of the extracted specimen as a basis.

All weighings shall be made after conditioning at 65 per cent relative humidity at 70° F. Weighings shall be made to the nearest milligram or equivalent accuracy.

Analysis of Cloth for Tariff Purposes

Treasury Decisions 33823 and 34255

Under the provisions of paragraph 253 the rates of duty are to be ascertained according to the average number of the yarns in the condition in which imported. The length of the yarn is to be counted as equal to the distance covered by it in the cloth, all clipped threads to be measured as if continuous, and all ply yarns to be separated into singles and the count taken of the total singles; any excessive sizing to be removed by boiling or other suitable process. The number of the yarn is the English number of 840 yards to a pound for a No. 1 yarn.

The average number of the yarn may be found without unraveling the fabric, and is the quotient of the division of the total thread length by the weight in the proportion of 840 yards of yarn equaling 1 pound of 7,000 grains or 1 yard of yarn equaling $8\frac{1}{3}$ grains, which is equivalent to a No. 1 yarn.

The following simple formula may be used: Multiply the count of threads per square inch by the number of square inches in the sample used, this product to be multiplied by 100; then divide the product thus obtained by the weight of the sample in grains multiplied by 432. The quotient will give the number of the yarn. For example, take a sample of cotton cloth 4 inches square, which equals 16 square inches, having 28 warp and 28 woof threads, a total of 56 threads to the square inch, and weighing 8.6 grains. The formula applied would be as follows:

$$\frac{56 \times 16 \times 100}{8.6 \times 432} = 24, \text{ the number of the yarn.}$$

The formula may be further simplified by weighing a square yard of said cloth and dividing the number of threads per square inch by $1/300$ of the weight of a square yard in grains.

Samples of all cotton cloth should be forwarded to the United States appraiser at New York on the C. V. R. cards, under the provisions of T. D. 31936. When a square yard or more is available for test the following formula may be used:

$$\frac{\text{Number of threads per square inch} \times 24}{\text{Number of ounces per square yard} \times 35} = \text{Average number of yarn.}$$

An addition of $8\frac{1}{2}$ per cent to be made to bone-dry weight in ascertaining the number of the yarn in cotton cloth.

Width of Some Standard Fabrics

The following is a list of the widths on which the weight of the fabrics listed are based:

	Inches		Inches
Single and double filling ducks	29	Balata belt duck	36
Army ducks	28 $\frac{1}{2}$	Oil or stitched belt duck	36
Shelter tent duck	35 $\frac{1}{4}$	Numbered duck (American)	22
Shoe duck	37	Numbered duck (English)	24
Tire duck	36	Mitten flannels	33
Hose duck	40	Ticking	32
Rubber belt duck	42	Osnaburg	30
Enameling ducks	38, 46 $\frac{1}{2}$, 51 $\frac{1}{2}$, 61 $\frac{1}{2}$, 63		

Breaking Strength of American Yarns spun from American Cotton

By George Draper

120 Yards Weight (Grains)	Number of Yarn	OLD	NEW			120 Yards Weight (Grains)	Number of Yarn	OLD	NEW
			Breaking Weight of Warp Yarn	Breaking Weight of Warp Yarn	Breaking Weight Combed Warp				
1,000	1	—	—	—	—	19.6	51	36.6	47—
500	2	—	—	—	—	19.2	52	36.1	46
333.3	3	530	634+	863—	620+	18.9	53	35.5	45+
250	4	410	476—	646	462	18.5	54	34.9	44+
200	5	330	381	516	367	18.2	55	34.4	43+
166.7	6	275	318—	429+	304—	17.9	56	33.8	42+
142.9	7	237.6	272+	367+	258+	17.5	57	33.4	42—
125	8	209	238+	321	224+	17.2	58	32.8	41—
111.1	9	186.5	212+	285—	198+	17	59	32.3	40+
100	10	168.7	191	256	177	16.7	60	31.7	39+
90.9	11	154.1	174—	232+	160—	16.4	61	31.3	39—
83.3	12	142	159+	213—	145+	16.1	62	30.8	38—
76.9	13	131.5	147+	196	133+	15.9	63	30.4	37+
71.4	14	122.8	137—	182—	123—	15.6	64	30	37—
66.7	15	115.1	128—	169+	114—	15.4	65	29.6	36
62.5	16	108.4	120—	158+	106—	15.2	66	29.2	35+
58.8	17	102.5	113—	149—	99—	14.9	67	28.8	35—
55.6	18	97.3	107—	140+	93—	14.7	68	28.5	34+
52.6	19	92.6	101	133—	87	14.5	69	28.2	34—
50	20	88.3	96	126	82	14.3	70	27.8	33+
47.6	21	83.8	91+	120—	77+	14.1	71	27.4	33—
45.5	22	79.7	87+	114+	73+	13.9	72	27.1	32+
43.5	23	75.9	84—	109+	70—	13.7	73	26.8	32—
41.7	24	72.4	80+	104+	66+	13.5	74	26.5	31+
40	25	69.2	77	100	63	13.3	75	26.2	31—
38.5	26	66.3	74+	96	60+	13.2	76	25.8	30+
37	27	63.6	71+	92+	57+	13	77	25.5	30—
35.7	28	61.3	69—	89—	55—	12.8	78	25.3	29+
34.5	29	59.2	67—	86—	53—	12.7	79	24.9	29—
33.3	30	57.3	64+	83—	50+	12.5	80	24.6	28+
32.3	31	55.6	62+	80—	48+	12.4	81	24.3	28+
31.3	32	54	60+	77+	46+	12.2	82	24	28—
30.3	33	52.6	59—	75—	45—	12.1	83	23.7	27+
29.4	34	51.2	57—	72+	43—	11.9	84	23.4	27—
28.6	35	50	55+	70+	41+	11.8	85	23.2	27—
27.8	36	48.7	54—	68+	40—	11.6	86	22.8	26+
27	37	47.6	52+	66+	38+	11.5	87	22.6	26—
26.3	38	46.5	51	64+	37	11.4	88	22.4	26—
25.6	39	45.5	50—	63—	36—	11.2	89	22.2	25+
25	40	44.6	48+	61	34+	11.1	90	22	25—
24.4	41	43.8	47+	59+	33+	11	91	21.7	25—
23.8	42	43	46+	58—	32+	10.9	92	21.5	24+
23.3	43	42.2	45+	56+	31+	10.8	93	21.3	24—
22.7	44	41.4	44+	55+	30+	10.6	94	21.2	24—
22.2	45	40.7	43+	54—	29+	10.5	95	21	23+
21.7	46	40	42+	53—	28+	10.4	96	20.7	23+
21.3	47	39.3	41+	51+	27+	10.3	97	20.5	23—
20.8	48	38.6	41—	50+	27—	10.2	98	20.4	23—
20.4	49	37.9	40—	49+	26—	10.1	99	20.2	22+
20	50	37.3	39	48	25	10	100	20	22

Breaking Strength of Carded Warp Yarn

Courtesy of F. P. Sheldon & Son

COUNTS	STAPLE				
	7/8	1	1 1/8	1 1/4	1 3/8
10	150.5	186.5	218.5	254	—
12	125	153.5	181.5	210	248
14	106	130	154	178	205
16	90	111.5	133	155	176.5
18	78	97.5	116.5	137	156
20	68	85.5	103.5	122.5	140.5
22	59.5	76	92	109	123.5
24	53	69	83	98.5	111.5
26	47.5	62.5	76	89	102
28	43.5	57.5	70	81.5	93
30	40	52.5	64.5	75	86
32	35.5	48	60	69	80
34	33.5	44.5	55.5	64	75
36	30.5	41	51	60	70
38	28	38.5	47.5	56	66
40	25.5	35.5	44	52.5	62
42	23.5	33	41	49	58.5
44	22	30.5	38.5	46	55
46	20	28.5	36	44	52
48	18.5	27	34	41.5	48.5
50	17	25	32	39	46.5
52	16	23.5	30	37	44.5
54	15	22	28.5	35	42.5
56	13.5	20.5	26.5	33.5	40.5
58	12.5	19	25	31.5	38.5
60	11.5	17.5	23.5	30	36.5
62	11	16.5	22	28	34.5
64	10	15.5	21	26.5	33
66	9	14	19.5	25	31
68	8	13	18	23.5	29.5
70	7.5	12.5	17.5	22	28

$$\text{Strength of yarn in pounds} = \frac{1600 (1 + \text{or} - .11a + \text{or} - .01b)}{c}$$

a = Difference in sixteenths of staple over or under one inch. Use + sign when over, - when under.

b = Difference in number of yarn above or below 28s. Use - sign when over 28s, + sign when below 28s.

c = Yarn count.

The above table represents the breaking strength found by testing a great many samples of yarn using the 120 yard skein after conditioning in an atmosphere containing 70 per cent relative humidity.

Breaking Strength of Combed Warp Yarn

Courtesy of F. P. Sheldon & Son

COUNTS	STAPLE				
	1 1/8	1 1/4	1 1/2	1 1/2	1 5/8
20	113	132.5	151.5	170	189
22	100	119	136.5	152.5	173
24	90	108.5	125	139.5	157
26	83	98.5	114	128	143.5
28	76.5	90	105	117.5	133
30	70.5	82.5	96	108	121.5
32	64.5	76.5	89	100	112
34	60	71	82.5	94	105
36	56	66.5	77.5	88	99
38	52	61.5	72.5	82	92.5
40	48	57.5	68	77.5	87
42	45	54	64	73	82
44	42	51	60	68.5	77.5
46	39.5	48	57	65	73.5
48	37.5	45.5	53.5	61.5	69
50	35	43	51	58.5	65.5
52	33	40.5	48	55.5	62
54	31	38.5	46	52.5	59
56	29.5	36.5	43.5	50.5	56.5
58	28	34.5	41	47.5	53.5
60	26.5	32.5	39.5	45.5	51
62	25	31	37.5	43.5	49
64	24	29.5	35.5	41.5	47
66	22.5	28	34	39.5	45
68	21.5	27	32.5	38.5	43.5
70	20	26	31	36.5	41.5
72	19	24.5	30	35	40
74	18	23.5	28.5	33.5	38.5
76	17	22.5	27.5	32	37.5
78	16.5	21.5	26.5	31	36
80	15.5	20.5	25.5	30	34.5
82	15	19.5	24.5	28.5	33
84	14	18.5	23	27.5	31.5
86	13	17.5	22	26.5	30.5
88	12.5	17	21	25.5	29.5
90	12	16	20	25	28.5
92	11	15.5	19.5	24	27.5
94	10.5	15	18.5	23	27
96	9.5	14	17.5	22	26
98	9	13.5	17	21	25.5
100	8.5	12.5	16.5	20	24.5
102	8	12	15.5	19.5	23.5
104	7.5	11.5	15	19	22.5
106	7	11	14.5	18	22
108	7	10.5	14	17.5	21.5
110	6.5	10	13.5	17	20.5
112	6	9.5	12.5	16.5	19.5
114	5.5	9	12	16	19
116	5.5	8.5	11.5	15.5	18.5
118	5	8	11	15	17.5
120	4.5	7.5	10.5	14	17

Strength of Combed Yarns computed from formula:

$$1750 (1 + .11a \pm .01b) = s$$

c = counts.

s = strength in pounds.

a = difference in sixteenths of staple over one inch.

b = difference in number of yarn above or below 28s, use - sign when over and + sign when under.

Standard List of Wide and Sail Duck

The following table shows a list of ducks approved as standard by the Division of Simplified Practice and the Cotton Duck Association

[Pounds per Yard]

WIDTH (INCHES)	2/0	1/0	1	2	3	4	5	6	7	8	9	10	11	12	WIDTH (INCHES)
22	1.250	1.187	1.125	1.062	1.000	0.938	0.875	0.812	0.750	0.687	0.625	0.562	0.500	0.437	22
24	1.364	1.295	1.235	1.159	1.091	1.023	0.956	0.886	0.818	0.750	0.682	0.614	0.546	0.477	24
26	—	1.329	1.266	1.182	1.108	1.034	0.960	0.896	0.826	0.750	0.682	0.615	0.551	0.477	26
28	—	—	1.432	1.352	1.278	1.193	1.114	1.034	0.955	0.875	0.795	0.716	0.636	0.557	28
30	—	—	1.534	1.449	1.364	1.278	1.193	1.108	1.023	0.937	0.852	0.767	0.682	0.587	30
32	—	—	1.636	1.545	1.465	1.364	1.273	1.182	1.091	1.000	0.909	0.818	0.727	0.626	32
36	—	—	1.841	1.739	1.636	1.534	1.432	1.330	1.227	1.125	1.023	0.920	0.818	0.716	36
38	—	—	1.943	1.835	1.727	1.619	1.511	1.403	1.295	1.187	1.080	0.973	0.864	0.756	38
40	—	—	2.045	1.932	1.818	1.705	1.591	1.477	1.364	1.250	1.136	1.023	0.909	0.715	40
42	—	—	2.148	2.028	1.909	1.790	1.670	1.551	1.432	1.312	1.192	1.074	0.955	0.835	42
44	—	—	2.250	2.000	1.825	1.700	1.575	1.465	1.350	1.235	1.250	1.125	1.000	0.875	44
48	—	—	2.454	2.318	2.182	2.045	1.909	1.773	1.636	1.500	1.364	1.227	1.091	0.955	48
50	—	—	2.557	2.415	2.273	2.181	1.989	1.847	1.705	1.562	1.420	1.278	1.136	0.994	50
54	—	—	2.701	2.608	2.455	2.301	2.148	1.994	1.841	1.687	1.534	1.381	1.227	1.074	54
60	—	—	3.068	2.898	2.737	2.557	2.386	2.216	2.045	1.875	1.705	1.534	1.364	1.193	60
66	—	—	3.375	3.187	3.000	2.812	2.625	2.437	2.250	2.062	1.875	1.687	1.500	1.312	66
72	—	—	3.682	3.477	3.273	3.068	2.864	2.659	2.455	2.250	2.045	1.841	1.636	1.432	72
84	—	—	4.205	4.057	3.818	3.580	3.341	3.102	2.864	2.623	2.386	2.148	1.909	1.670	84
90	—	—	4.602	4.347	4.091	3.835	3.580	3.324	3.068	2.812	2.557	2.301	2.045	1.790	90
96	—	—	4.969	4.636	4.364	4.091	3.818	3.515	3.273	3.000	2.727	2.455	2.182	1.909	96
100	—	—	5.114	4.830	4.546	4.261	3.977	3.635	3.409	3.125	2.841	2.557	2.273	1.989	100
108	—	—	5.522	5.216	4.909	4.602	4.295	3.989	3.682	3.375	3.068	2.761	2.455	2.148	108
120	—	—	6.156	6.796	5.455	5.114	4.773	4.432	4.091	3.750	3.409	3.068	2.727	2.366	120
132	—	—	6.750	6.374	6.000	5.624	5.250	4.874	4.500	4.124	3.750	3.374	3.000	2.624	132
144	—	—	7.364	6.954	6.546	6.136	5.728	5.318	4.910	4.500	4.090	3.682	3.272	2.864	144

"The numbers in Roman type represent *regular* fabrics; all others including widths intermediate to those listed, are specials. Only the list of *regular* numbers and widths to be carried in stock, specials will be made up on order only in units of not less than 500 yards, and as far as possible the manufacture of specials will be restricted to units of 1,500 yards as representing the minimum at which operating efficiency is obtainable."

Federal Specifications Board—Specifications for Cotton Materials

COMMODITY	Federal* Specifica- tions Board Symbol	Bureau of Standards Number
Absorbent cotton	JJJ-C-561	Printed
Airplane cloth, cotton mercerized, Grade A	CCC-C-401	—
Asphalt-saturated woven cotton fabric for water- proofing	HH-C-581	C287
Bandage, gauze, compressed	DDD-B- 51	—
Bandage, plain gauze, roller, assorted	DDD-B- 61	—
Bedspreads, crinkle	DDD-B-151	—
Belting, conveyor (stitched duck)	DDD-B-171	—
Bottle, hot-water, cloth-inserted	ZZ-B-581	Printed
Bunting, cotton	CCC-B-791	—
Canvas cot, folding	AA-C-571	—
Cheesecloth, bleached or semi-bleached	CCC-C-271	C365
Cheesecloth remnants for wiping purposes	DDD-C-301	—
Cheesecloth, unbleached	CCC-C-281	C258
Cheesecloth for wiping purposes	CCC-C-291	C255
Cloth, abrasive, aluminum oxide	P-C-451	—
Cloth, Birdseye, diaper	CCC-C-411	—
Cloth, emery	P-C-461	—
Cloth, shade	CCC-C-521	Printed
Cloth, tracing	CCC-C-531	—
Cloth, tracing, printed	CCC-C-536	—
Cloths, wiping	DDD-C-491	C267
Cord, sash, cotton braided	T-C-571	—
Cotton waste, colored	DDD-W-101	C263
Cotton waste, white	DDD-W-106	C262
Denim, blue, indigo (shrunk)	CCC-D-151	—
Denim, blue, indigo (unshrunk)	CCC-D-156	—
Denim, brown (shrunk)	CCC-D-161	—
Denim, brown (unshrunk)	CCC-D-171	—
Drill, unbleached	CCC-D-651	C367
Duck, cotton, numbered	CCC-D-731	C136
Duck, light weight (army duck, gray)	CCC-D-751	C166
Duck, tent (special construction for bleaching or dyeing, gray)	CCC-D-771	C167
Flannel, canton	CCC-F-451	—
Gauze, plain	CCC-G-101	—
Hose, air brake, signal, and gaskets	ZZ-H-401	—
Hose, chemical	ZZ-H-421	—
Hose, divers'	ZZ-H-431	C289
Hose, fire, cotton, rubber lined (couplings and gaskets)	ZZ-H-451	C114
Hose, gas	ZZ-H-461	C290
Hose, gasoline, rubber-metal	ZZ-H-466	Printed
Hose, oil suction and discharge	ZZ-H-481	—
Hose, pneumatic	ZZ-H-491	Printed
Hose, spray	ZZ-H-521	—
Hose, steam	ZZ-H-541	C268
Hose, tender (corrugated)	ZZ-H-581	C288
Hose, water braided	ZZ-H-601	—
Hose, water suction (smooth bore)	ZZ-H-561	Printed
Hose, water, wrapped	ZZ-H-611	Printed
Hosiery sizes, measuring	JJ-H-601	—
Jeans, bleached	CCC-J-191	—
Netting, mosquito (unbleached bobbinet)	JJ-N-191	—
Oileloth, table, white	CCC-O-351	C357

**Federal Specifications Board—Specifications for Cotton Materials—
(Concluded)**

COMMODITY	Federal* Specifica- tions Board Symbol	Bureau of Standards Number
Packing, fabric, condenser tube	HII-P- 71	—
Packing, rubber, cloth insertion	HH-P-151	C236
Pads, surgical, operating	ZZ-P- 51	—
Percale	CCC-P-191	—
Pillowcases, cotton, bleached	DDD-P-351	Printed
Rags, colored cotton, for wiping machinery (sterilized)	DDD-R- 51	C261
Rags, white cotton, for wiping machinery (sterilized)	DDD-R- 56	C264
Ribbons, computing and recording machine	DDD-R-271	Printed
Ribbons, hectograph	DDD-R-291	Printed
Ribbons, typewriter	DDD-R-311	Printed
Ring cushions, cloth-inserted	ZZ-C-791	Printed
Rope cotton	T-R-571	C326
Rubber sheeting	ZZ-S-311	Printed
Seams, stitches and stitching (price 25 cents)	DDD-S-751	Printed
Shades, window, rollers, slats, cords and accessories	DDD-S-251	C368
Sheeting, cotton, bleached, wide	CCC-S-271	Printed
Sheeting, cotton, brown, narrow	CCC-S-281	—
Sheeting, cotton, brown, wide	CCC-S-291	C278
Sheets, cotton, bleached	DDD-S-281	Printed
Sleeves, dredging	ZZ-S-451	—
Tablecloths, cotton	DDD-C-481	C351
Textile materials, general specifications for (methods of physical and chemical tests)	CCC-T-191	—
Ticking, mattress and pillow	CCC-T-351	—
Tires, automobile, solid	ZZ-T-391	Printed
Tires, pneumatic	ZZ-T-381	Printed
Towels, crash (cotton and linen mixed)	DDD-T-511	—
Towels, glass, cotton	DDD-T-501	—
Towels, huck (with woven name)	DDD-T-531	—
Tubes, automobile and motorcycle, inner	ZZ-T-721	Printed
Twine, cotton, wrapping	T-T-871	Printed
Twine, cotton seine	T-T-881	Printed

Specifications bearing only a Federal Specifications Board number and symbol number are in mimeograph form and can be obtained upon request from the Federal Specifications Board, Bureau of Standards, Washington, D. C.

Specifications marked "Printed" or those bearing Bureau of Standards circular numbers are in printed form and must be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C., at five cents each unless otherwise indicated. In requesting specifications from the Superintendent of Documents, the Bureau publication number or the new Federal symbol must be stated.

The price of each printed specification is five cents per copy, unless otherwise noted.

* NOTE.—All Federal Specifications have been assigned new symbol numbers. As rapidly as the specifications are revised, the new symbol appears on the specification. The above specifications marked "Printed" have been revised and bear the new symbol.

Contract Sales Note for Staple Gray Goods

Form approved and adopted by The National Association of Cotton Manufacturers and American Cotton Manufacturers' Association, 1910

Sold for account of Number
 To
 Quantity: yards (variation not to exceed 2% allowed) } Allowable variation in
 pieces of yards each } length of pieces if
 bales of yards each } special.

In addition, buyer to take $\left\{ \begin{array}{l} \frac{\%}{\%} \text{ Seconds @} \\ \frac{\%}{\%} \text{ Tailings at stated contract price if} \end{array} \right.$ contract is not renewed.

Quality:

Time of delivery: from date hereof
 during each week, commencing week ending
 during each month, beginning in the month of

Width in inches:

Count per inch: Warp Filling
 Weight: $\left\{ \begin{array}{l} \text{No shipment to average lighter} \\ \text{No bale to be over 1\% lighter} \\ \text{No piece to be over 3\% heavier} \end{array} \right\}$ than Yards to the pound.

Price: Cents per yard.

Terms of payment:

Net days from date of delivery.
 Net days from date of delivery less % for payment within
 days from date of delivery.

Place of delivery:

F. O. B. to carrier at with freight allowance.
 F. O. B.

Special conditions:

Shipping instructions:

If the production of the seller shall be curtailed during the time above named, by strikes, lockouts, or unavoidable casualties, the deliveries shall be made and accepted in proportion to the production.

The provisions of paragraphs I, II and III, and the allowable variations from specifications as adopted by The American Cotton Manufacturers' Association and The National Association of Cotton Manufacturers, all as printed on the back hereof,¹ are accepted and agreed to as a part of this contract, unless otherwise stated herein.

This sale note is the entire contract between the buyer and seller, and any alteration in or changes from the printed form of this contract must appear on it in writing.

To

(Signed)

¹ See following page.

Paragraph I. Passing of Title on Delivery.—Unless otherwise specified, the title to goods sold passes to the buyer (subject to the right of stoppage *in transitu*):—

a. Upon delivery F. O. B. to carrier, consigned to buyer, and thereafter goods are at buyer's risk.

b. Upon arrival of goods at destination and delivery to buyer of bill of lading or of goods, in the case of goods to be delivered F. O. B. elsewhere than to carrier.

c. Upon delivery of indorsed bill of lading or of goods, in the case of goods consigned to seller's order.

d. Upon the separation of the goods and holding subject to buyer's order (the invoice to follow by due course of mail), in the case of goods to be held or if buyer fails to give shipping instructions.

Paragraph II. Storage and Insurance.—Goods invoiced and held subject to buyer's orders shall be at buyer's risk, but covered by fire insurance effected by sellers in reputable companies.

Paragraph III. Rejections and Claims.—The buyer cannot reject the goods for delay in delivery unless he notifies the seller within five business days from receipt of bill of lading, or of invoice if goods are to be held. When contract calls for delivery in instalments, the buyer cannot cancel the contract for any default in any one or more instalments not amounting to a substantial breach of contract but may cancel or replace at seller's expense any delivery that is delayed.

Buyer cannot reject goods for defects in quality or other like defaults (*a*) if he cuts or converts them, nor (*b*) unless he notifies seller within ninety days from receipt by him or at finishing works of goods not held, or within ninety days after date of invoice if goods are invoiced and held; nor (*c*) unless such defects amount to a substantial breach of contract.

Loss of right to reject does not deprive the buyer of his right to claim damages, if any; but no recovery shall be had on any claim not made within one year from receipt of goods or from date of invoice if goods are held.

Allowable Variations from Contract Specifications

Width.—The width shall not vary anywhere by more than $\frac{3}{8}$ of an inch below the stipulated width, nor more than $\frac{5}{8}$ of an inch above. The width shall not be uniformly less than the stipulated width, but must, in a majority of places in each piece, be equal to, or greater than, the stipulated width. Goods shall be measured at right angles to the selvages when laid open on a flat, horizontal surface and smoothed out by hand, but not stretched.

Warp Count.—Except within four inches of each selvage, (where exclusive of the selvage, the count must approximate that stipulated) the number of warp threads per inch shall not vary anywhere by more than one thread per inch below the stipulated count, nor by more than two threads per inch above. The number of threads in each piece must equal the stipulated count multiplied by the stipulated width plus the extra threads used in the selvage.

Filling Count.—The number of threads in the filling, or weft, shall not vary anywhere by more than three threads per inch below the stipulated count, nor by more than four above. In the case of sateens, when the count of filling exceeds the count of the warp, the allowance for variation above specified shall be increased by the same percentage that the filling count exceeds that of the warp count. In any case including sateens, the filling count per inch shall not run below the stipulated count throughout the piece, but must, in a majority of places in each piece, equal or be more than, the stipulated count.

Weight.—In case of controversy regarding the weight of goods, decision shall be based on goods which have been exposed for twenty-four hours to normal atmospheric conditions approximating a temperature of 70 degrees F. and a humidity of 70 per cent.

OFFICERS AND MEMBERS OF THE ASSOCIATION

OFFICERS OF THE ASSOCIATION FROM THE FIRST ORGANIZATION

PRESIDENTS

EZEKIEL A. STRAW	1865-78	HERBERT E. WALMSLEY	1903-05
AMOS D. LOCKWOOD	1878-80	JAMES R. MACCOLL	1905-07
JOHN KILBURN	1880-83	WILLIAM D. HARTSHORNE	1907-08
WILLIAM C. LOVERING	1883-85	CHARLES T. PLUNKETT	1908-10
RICHARD GARSED	1885-86	FRANKLIN W. HOBBS	1910-12
JOSEPH S. LUDLAM	1886-88	EDWIN FARNHAM GREENE	1912-14
HENRY F. LIPPITT	1888-89	ALBERT GREENE DUNCAN	1914-16
WALTER E. PARKER	1889-92	ALBERT FARWELL BEMIS	1916-18
ROBERT McARTHUR	1892-94	W. FRANK SHOVE	1918-20
EDWARD W. THOMAS	1894-95	RUSSELL B. LOWE	1920-22
ALFRED M. GOODALE	1895-96	ROBERT AMORY	1922-24
ARTHUR H. LOWE	1896-97	MORGAN BUTLER	1924-25
RUSSELL W. EATON	1897-98	WILLIAM B. MACCOLL	1925-27
STEPHEN A. KNIGHT	1898-99	G. EDWARD BUXTON	1927-28
FREDERICK E. CLARKE	1899-99	LINCOLN BAYLIES	1928-30
DAVID M. THOMPSON	1900-01	WARD THORON	1930-
CHARLES H. FISH	1901-03		

VICE PRESIDENTS

WILLIAM A. BURKE	1865-73	WILLIAM D. HARTSHORNE	1903-07
AMOS D. LOCKWOOD	1865-77	GEORGE A. AYER	1905-07
JOHN C. PALFREY	1873-76	CHARLES T. PLUNKETT	1907-08
EDWARD ATKINSON	1876-78	GEORGE OTIS DRAPER	1907-11
A. G. CUMNOCK	1877-80	FRANKLIN W. HOBBS	1908-10
CHARLES NOURSE	1878-81	EDWIN FARNHAM GREENE	1910-12
WILLIAM F. GOULDING	1880-83	FREDERICK A. FLATHER	1911-13
RICHARD GARSED	1881-85	GEORGE P. GRANT, JR.	1912-14
JOSEPH S. LUDLAM	1883-86	ALBERT GREENE DUNCAN	1913-14
WALTER E. PARKER	1885-89	WILLIAM M. BUTLER	1914-16
RICHARD B. BORDEN	1886-88	GROSVENOR ELY	1914-16
ARNOLD B. SANFORD	1888-91	W. FRANK SHOVE	1916-18
ROBERT McARTHUR	1889-92	RUSSELL B. LOWE	1916-20
SIMEON B. CHASE	1891-93	JAMES THOMSON	1918-22
EDWARD W. THOMAS	1892-94	ROBERT AMORY	1920-22
ALFRED M. GOODALE	1893-95	NATHAN DURFEE	1922-24
WILLIAM J. KENT	1894-97	JOHN SKINNER	1922-24
FRED C. McDUFFIE	1895-00	RUSSELL H. LEONARD	1924-27
HENRY T. WHITIN	1897-00	JOHN A. SWEETSER	1924-27
CHARLES H. RICHARDSON	1900-01	PHILIP DANA	1927-30
GEORGE H. HILLS	1900-02	ALFRED E. COLBY	1927-28
HERBERT E. WALMSLEY	1901-03	IRVING SOUTHWORTH	1928-
ALFRED E. ADAMS	1902-03	ERNEST N. HOOD	1930-
JAMES R. MACCOLL	1903-05		

DIRECTORS

DANIEL D. CROMBIE	1865-68	RUSSELL W. EATON	1896-97
JONES S. DAVIS	1865-69	GEORGE H. HILLS	1897-00
WILLIAM P. HAINES	1865-69	CHARLES H. RICHARDSON	1897-00
PHINEAS ADAMS	1865-74	JOHN T. MEATS	1898-01
THOMAS J. BORDEN	1865-78	GEORGE F. WHITTEN	1898-04
CHARLES NOURSE	1865-78	ALFRED E. ADAMS	1899-02
A. M. WADE	1868-69	A. TENNY WHITE	1899-02
DAVID J. JOHNSTON	1869-70	CHARLES H. FISH	1900-01
FREDERICK E. CLARKE	1869-75	HERBERT E. WALMSLEY	1900-01
A. G. CUMNOCK	1869-77	WILLIAM B. HARTSHORNE	1901-03
JOHN KILBURN	1870-80	JAMES R. MACCOLL	1901-03
WILLIAM P. HAINES	1874-78	W. B. SMITH WHALEY	1901-04
CYRUS L. BARKER	1875-80	JAMES R. MONTGOMERY	1902-05
HERVEY KENT	1877-81	WILLIAM D. PENNELL	1902-05
WALTER PAYNE, 3d	1878-80	PHILIP A. MATHEWSON	1903-06
DAVID J. JOHNSTON	1878-82	GEORGE P. GRANT, JR.	1903-12
CHARLES L. LOVERING	1878-83	GEORGE A. AYER	1904-05
RICHARD GARSED	1880-81	CHRISTOPHER P. BROOKS	1904-07
WILLIAM H. JENNINGS	1880-83	CHARLES T. PLUNKETT	1905-07
JOHN W. DANIELSON	1881-85	ROSCOE S. MILLIKEN	1905-08
WALTER E. PARKER	1881-85	WILLIAM H. LOFTUS	1905-10
WILLIAM E. BARROWS	1882-83	GEORGE OTIS DRAPER	1906-07
CHARLES D. McDUFFIE	1883-83	FRANKLIN W. HOBBS	1906-08
RICHARD B. BORDEN	1883-86	HENRY F. MANSFIELD	1906-10
RUFUS A. MAXFIELD	1883-86	ROBERT BEATTY	1906-11
GEORGE W. WEEKS	1883-86	EDWIN FARNHAM GREENE	1907-10
HENRY S. HOWE	1883-87	JOHN W. KNOWLES	1907-10
HENRY F. LIPPITT	1885-88	FREDERICK A. FLATHER	1907-11
O. S. BROWN	1885-91	JOSEPH MERRIAM	1908-11
WILBUR A. STILES	1886-88	DAVID S. JOHNSTON	1908-12
ROBERT McARTHUR	1886-89	FREDERICK B. MACY	1910-14
STEPHEN N. BOURNE	1886-91	ALBERT FARWELL BEMIS	1910-16
S. S. SPENCER	1887-90	RUSSELL B. LOWE	1910-16
EDWARD W. THOMAS	1888-92	R. M. MILLER, JR.	1910-17
WILLIAM W. WHITIN	1888-93	WILLIAM AMORY	1911-14
ROBERT R. SMITH	1889-92	W. FRANK SHOVE	1911-16
ALFRED M. GOODALE	1890-93	WILLIAM N. KIMBALL	1911-17
HERMAN F. STRAW	1891-93	ALBERT GREENE DUNCAN	1912-13
WILLIAM J. KENT	1891-94	WILLIAM M. BUTLER	1912-14
FRED C. McDUFFIE	1892-95	GROSVENOR ELY	1913-14
GEORGE W. BEAN	1892-95	WILLIAM A. MITCHELL	1914-17
FRANK M. MESSENGER	1893-95	ALEXANDER MAKEPEACE	1914-18
ALBERT F. KNIGHT	1893-99	JOHN SULLIVAN	1914-18
ARTHUR H. LOWE	1894-96	PHILIP DANA	1914-20
HENRY T. WHITIN	1894-97	HERBERT LYMAN	1916-19
HERBERT L. PRATT	1895-98	PHILIP Y. DE NORMANDIE	1916-19
STEPHEN A. KNIGHT	1895-98	JOHN E. ROUSMANIERE	1916-22
JOHN ECCLES	1895-99	WILLIAM B. MACCOLL	1917-18

THOMAS H. RENNIE	1917-19	ALBERT G. MASON	1924-26
CHARLES L. GILLILAND	1917-20	W. S. PEPPERELL	1924-28
ALBERT BLUM	1918-20	W. IRVING BULLARD	1924-30
FREDERICK L. JENCKES	1918-21	JOHN L. BURTON	1924-30
JOHN SKINNER	1918-22	JOHN S. LAWRENCE	1924-30
J. ARTHUR ATWOOD	1918-24	JAMES SINCLAIR	1924-27
CHARLES B. CHASE	1918-23	E. KENT SWIFT	1924-30
LEWIS DEXTER	1918-23	WILLIAM B. MACCOLL	1925-25
GROSVENOR ELY	1918-23	S. HAROLD GREENE	1925-
CHARLES M. HOLMES	1918-24	JAMES O. THOMPSON, JR.	1925-28
WILLIAM L. LYALL	1918-23	DEXTER STEVENS	1925-29
JOHN E. McLOUGHLIN	1919-22	ERNEST N. HOOD	1926-30
MORGAN BUTLER	1919-24	FRED W. STEELE	1926-29
A. W. DIMOCK	1919-24	B. H. BRISTOW DRAPER	1927-
NATHAN DURFEE	1920-22	JOHN H. HOLT	1927-
SAMUEL STEWART	1920-23	CHARLES E. INCHES	1927-
E. KENT SWIFT	1920-23	FRANK I. NEILD	1928-29
ALLEN F. JOHNSON	1921-22	AMORY COOLIDGE	1928-
ALFRED E. COLBY	1922-27	HENRY G. NICHOLS	1928-
PHILIP DANA	1922-27	WALTER WHIPPLE	1928-
B. H. BRISTOW DRAPER	1922-24	SIDNEY S. PAINE	1929-
JOHN A. PERKINS	1922-28	FRANK B. RICKETSON	1929-
JAMES THOMSON	1922-25	GEORGE E. SPOFFORD	1929-
ARTHUR R. DICKINSON	1923-25	ROBERT AMORY	1930-
R. H. I. GODDARD	1923-25	DAVID DUNCAN	1930-
RUSSELL H. LEONARD	1923-24	D. F. EDWARDS	1930-
JOHN A. SWEETSER	1923-24	SEABURY STANTON	1930-
ANDREW S. WEBB	1923-26	DEXTER STEVENS	1930-
C. F. BROUGHTON	1923-28		

AUDITORS

BENJAMIN SAUNDERS	1865-71	C. E. ROBERTS	1900-16
JOHN C. PALFREY	1871-73	BOYDEN & STEACIE	1916-19
HENRY D. SULLIVAN	1873-82	F. W. LAFRENTZ & Co.	1919-
J. HERBERT SAWYER	1882-00		

SECRETARY AND TREASURER

AMBROSE EASTMAN	1865-94	C. J. H. WOODBURY	1894-15
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SECRETARY

TREASURER

C. J. H. WOODBURY	1915-16	CHARLES H. FISH	1915-16
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SECRETARY AND TREASURER

CHARLES H. FISH	1916-17
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SECRETARY

TREASURER

RUFUS R. WILSON	1917-21	HERBERT LYMAN	1917-18
HARRY C. MESERVE	1921-25	W. IRVING BULLARD	1918-30
RUSSELL T. FISHER	1926-	FREDERICK FLATHER, JR.	1930-

ALPHABETICAL LIST OF MEMBERS

Active, Associate, Associate Sustaining, Associate Sustaining Representatives, Honorary, Junior Technical, Life, Sustaining, Sustaining Representatives and Technical

As of July 1, 1931

Ac. — Active
 As. — Associate
 Hon. — Honorary
 Jr. Tech. — Junior Technical
 L. — Life

Tech. — Technical
 As. Sus. — Associate Sustaining
 A.S.R. — Associate Sustaining Representative
 Sus. — Sustaining
 S.R. — Sustaining Representative

Abercrombie, James H.
 "Rutland," West St., Reigate, Surrey, Eng.
 Ac. April 25, 1907.

Acadia Mills
 J. Earle Parker, Treas., 78 Chauncy St., Boston, Mass.
 Sus. April 1, 1931.

Adam, Alexander E.
 Mgr. Canadian Cottons, Ltd., 429 James St., North, Hamilton, Ontario, Canada.
 Ac. April 30, 1909.

Adams, Edwin W.
 Lewiston Bleachery & Dye Works, Lewiston, Me.
 Ac. April 26, 1928.

Adams, Henry Shaw
 Sec.-Treas. The Springstein Mills, P. O. Box 442, Chester, S. C.
 Ac. October 4, 1907.

Adams, James A.
 Agent, Butler Mill, New Bedford, Mass.
 Ac. October 27, 1927.

Adams, Robert J.
 Pres. Adams Mfg. Co., 31-33 East 32d St., New York City.
 Ac. October 18, 1923.

Adams, William T.
 Treas., Adams Bros. Mfg. Co., Adams, Mass.
 Ac. February 10, 1928.

Aldrich Brothers Co.
 115 Turks Head Bldg., Providence, R. I.
 Sus. January 24, 1919.

Algeo, Bradley C.
 Philadelphia Textile School, 320 So. Broad St., Philadelphia, Pa.
 Ac. September 21, 1905.

Algonquin Printing Co.
 William H. Jennings, Treas., Fall River, Mass.
 Sus. November 1, 1918.

Allen, Fred
 The Hamilton Cotton Co., Hamilton, Ontario, Canada.
 Ac. June 5, 1925.

Allen, John E.
 The Textile Development Co., 80 Federal St., Boston, Mass.
 Tech. April 16, 1926.

Allen, Lewis F.
 Treas., Dinsmore Mfg. Co., Salem, Mass.
 As. April 28, 1910.

Allen, Woodward
 New England Manager, Solvay Sales Corp., 77 Summer St., Boston, Mass.
 As. May 1, 1930.

American Printing Co.
 Nathan Durfee, Vice-Pres., Fall River, Mass.
 Sus. January 7, 1918.

Ames, John Ormsbee
 Goddard Brothers, 50 So. Main St., Providence, R. I.
 { September 21, 1900.
 { L. September 21, 1905.

Amory, Robert
 Nashua Mfg. Co., 48 Franklin St., Boston, Mass.
 S.R. August 11, 1917.

Anderson, Clayton & Co.
 T. A. Davis, 92 State St., Boston, Mass.
 As. Sus. June 1, 1923.

Anderson, Will B.
 Mgr., Barber-Colman Co., Framingham, Mass.
 As. May 3, 1918.

Anderson, William D.
 Pres., Bibb Mfg. Co., Macon, Ga.
 Ac. April 29, 1915.

Andres, Frederick H.
 Treas., Frederick H. Andres, Inc., 89 Broad St., Boston, Mass.
 As. September 30, 1914.

Andrews, Harold B.
 J. P. Rhodes Company, 58 Weybosset St., Providence, R. I.
 As. April 16, 1926.

Androscoggin Mills
 George E. Spofford, Treas., Lewiston, Me.
 Sus. July 23, 1917.

Appleton, William C., Jr.
 The Viscose Company, 171 Madison Ave., New York City.
 As. June 14, 1926.

Arnold, C. H.
 Supt., Suncook Mills, Suncook, N. H.
 Ac. April 6, 1928.

Ashworth, Henry
 Parker Mill, Fall River, Mass.
 Ac. April 28, 1897.

Ashworth, Robert
 Ashworth Brothers, Inc., Fall River, Mass.
 As. October 25, 1928.

Atkinson, E. W.
 Atkinson, Haserick & Co., 152 Congress St., Boston, Mass.
 Ac. October 27, 1886.

Atwood, J. Arthur
 Treas., Ponemah Mills, Taftville, Conn.
 Ac. October 28, 1891.

Ayer, Nathaniel F.
 Treas., Nyanza Mills, 77 Franklin St., Boston, Mass.
 Ac. April 25, 1901.

Baetjer, Howard
 Pres., Mt. Vernon-Woodberry Mills, 506 Continental Bldg., Baltimore, Md.
 Ac. May 3, 1918.

Bailey, C. E.
 Manager, Franklin Weaving Company, Box 96, Franklin, Mass.
 Ac. April 6, 1925.

Bailey, Harry L.
 Wellington, Sears & Co., 93 Franklin St., Boston, Mass.
 Ac. October 2, 1913.

Bailey, Joseph W.
Agent, Booth Mfg. Company, New Bedford, Mass.
Ac. April 23, 1903.

Ballard, Joseph W.
Treas., Griswoldville Mfg. Co., Griswoldville, Mass.
S.R. January 21, 1918.

Balmer, John T.
Supt., Merchants Mfg. Company, Fall River, Mass.
Ac. June 5, 1925.

Baltic Mills Company, The
Baltic, Conn.
Sus. February 28, 1930.

Bancroft, John, Jr.
Pres., Joseph Bancroft Sons Co., Wilmington, Del.
Ac. August 3, 1921.

Bannon, John F.
Pres., Defiance Bleachery, Barrowsville, Mass.
Ac. May 3, 1918.

Barber-Colman Co.
Howard D. Colman, Pres., Rockford, Ill.
As. Sus. September 10, 1917.

Barnard, Elliott H.
Barnard & Company, 38 Chauncy St., Boston, Mass.
Ac. October 27, 1927.

Barnes, Arthur B.
Supt., Cotton Mills Div., American Printing Co., Fall River, Mass.
Ac. February 10, 1928.

Barnes, George H.
Supt., Bernon Mill, Manville Jenckes Co., Georgiaville, R. I.
Ac. February 28, 1930.

Barnes, Joel M.
Barnes Textile Service, 101 Milk St., Boston, Mass.
As. September 29, 1911.

Barnwell, Elliott H.
Pres., Barnwell & Co., 313 Ohio Bldg., Akron, Ohio.
Ac. May 3, 1918.

Barr, Walwin
6 Odell St., Yonkers, New York.
As. April 30, 1914.

Barrell, William L.
Treas., Lawrence Duck Co., Lawrence, Mass.
Ac. April 25, 1910

Barrett, W. Emerson
Treas., Maverick Mills, 144 Addison St., East Boston, Mass.
Ac. November 23, 1925.

Barrington Associates
G. R. Hawes, Treas., 220 East 42nd St., New York City.
As. Sus. May 3, 1929.

Barrows, Allan
Treas., Gosnold Mills Co., New Bedford, Mass.
Ac. July 15, 1922.

Bartlett, Edwin N.
Pres., The Edwin Bartlett Co., North Oxford, Mass.
Ac. April 29, 1891.

Batchelder, Nelson A.
Empire Cotton Mills, Ltd., Welland, Ontario, Canada.
Ac. September 30, 1914.

Batchelor, James F.
Supt., Dwight Mfg. Co., Chicopee, Mass.
Ac. June 8, 1928.

Bates, Daniel Moore
Pres., Bates, Inc., 112 North Broad St., Philadelphia, Pa.
Ac. April 27, 1898.

Bates Mfg. Co.
Jewett Newton, Ass't. Treas., Augusta, Me.
Sus. Sept. 18, 1917.

Bauldry, Lyman C.
Dept. Mgr., The Pairpoint Corp., New Bedford, Mass.
As. April 5, 1921.

Baylies, Lincoln
Amory, Browne & Co., 48 Franklin St., Boston, Mass.
Ac. June 14, 1926.

Baylies, Walter C.
Amory, Browne & Co., 48 Franklin St., Boston, Mass.
Ac. October 20, 1917.

Beacon Mfg. Co.
Charles D. Owen, Treas., New Bedford, Mass.
Sus. November 7, 1917.

Beal, W. DeFord
Cooper & Brush, Inc., 53 State St., Boston, Mass.
As. May 1, 1924.

Bean, Frank A.
Mfg. Supt., New York Mills Corp., New York Mills, N. Y.
Ac. April 6, 1923.

Beede, Herbert G.
97 Cottage St., Pawtucket, R. I.
Ac. May 4, 1920.

Bell, Colin C.
National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington, Del.
As. April 29, 1896.

Belland, Harry D.
Supt., Dominion Textile Company, Ltd., Verdun Branch, Verdun, Quebec, Canada.
Ac. March 7, 1924.

Bemis, Albert Farwell
Chairman, Bemis Bro. Bag Co., 40 Central St., Boston, Mass.
As. April 23, 1903.
{ L. April 13, 1911.

Benjamin, Edward B.
Vice-Pres., E. V. Benjamin Co., Maginnis Cotton Mills, New Orleans, La.
Ac. May 20, 1919.

Bennett, E. Howard
American Wool & Cotton Reporter, 530 Atlantic Ave., Boston, Mass.
As. April 30, 1914.

Berkshire Fine Spinning Associates, Inc.
Gilbert T. Thompson, Pres., 40 Worth St., New York, N. Y.
Sus. May 12, 1917.

Billings, Dwight B.
Pacific Mills, 140 Federal St., Boston, Mass.
Ac. October 14, 1926.

Bishop, Frederick H.
Universal Winding Co., 95 South St., Boston, Mass.
As. April 26, 1900.

Biswas, Kshitsish Chandra
Massachusetts Institute of Technology, Cambridge, Mass.
Jr. Tech. June 8, 1928.

Blake, Edmund E.
Saco-Lowell Shops, Biddeford, Me.
As. October 2, 1902.

Blake, Francis P.
Bay State Belting Co., 349 Congress St., Boston, Mass.
As. May 3, 1921.

Blanchard, Fessenden S.
Asst. to Treas., Pacific Mills, 24 Thomas St., New York City.
Ac. October 5, 1920.

Blum, Albert
Treas., United Piece Dye Works, Lodi, N. J.
S.R. February 12, 1918.

Boardman, Richard
Supt., Osborn Mills, Fall River, Mass.
Ac. September 11, 1912.

Bogert, Theodore P.
Sec., Mfrs. Mut. Fire Ins. Co., Providence, R. I.
As. April 13, 1911.

Bolton, Stanwood K.
Asst. Treas., New England Southern Corp., 89 Broad St., Boston, Mass.
Ac. September 13, 1929.

Bolton, Wright
Acushnet Mill Corp., New Bedford, Mass.
Ac. April 15, 1927.

Booth, Joseph W.
9 Peabody Rd., Stoneham, Mass.
Ac. April 25, 1907.

Boott Mills
Frederick A. Flather, Treas., 79 Milk St., Boston, Mass.
Sus. July 17, 1917.

Borden, Bertram H.
Pres., American Printing Co., P. O. Box 1194, City Hall Sta., New York City.
Ac. May 3, 1918.

Borden, Charles N.
Treas., Richard Borden Mfg. Co., Fall River, Mass.
S.R. July 17 1917.

Borden, Jefferson, Jr.
Fall River Bleachery, Fall River, Mass.
Ac. May 3, 1918.

Borden, Richard Mfg. Co.
Charles N. Borden, Treas., Fall River, Mass.
Sus. July 17, 1917.

Borden, Spencer, Jr.
Fall River Bleachery, Fall River, P. O.
Pres. and Treas., Fall River Bleachery, P. O. Box 1, Fall River, Mass.
Ac. April 27, 1916.

Boreham, E. E.
Treas., Celanese Corp. of America, 180 Madison Ave., New York City.
A.S.R. October 31, 1929.

Boutelle, Eugene G.
Lybrand Ross Bros. & Montgomery, 80 Federal St., Boston, Mass.
As. July 30, 1926.

Bowen, Amos Miller
Treas., U. S. Ring Traveler Co., 159 Aborn St., Providence, R. I.
As. April 6, 1923.

Bowen, Elmer L.
Agent, Appleton Co., Anderson, S. C.
Ac. October 29, 1918.

Bowler, Laurence R.
Butler, Prentice & Co., 320 Broadway, New York City.
Ac. June 1, 1923.

Bowne, Garrett D., Jr.
Westinghouse Electric & Mfg. Co., 10 High St., Boston, Mass.
As. April 29, 1911.

Boyd, Forest W.
Nyanza Mills, Woonsocket, R. I.
Ac. October 27, 1927.

Boyd, George A.
West Boylston, Mass.
Ac. May 3, 1920.

Boyd, John Schofield
John S. Boyd Co., Water St., Williamstown, Mass.
Ac. September 23, 1909.

Boyd, William V.
Mgr., The Canadian Cottons, Ltd., Cornwall, Ontario, Canada.
Ac. April 26, 1906.

Boys, Robert W.
Supt., Cotton Division, Farr Alpaca Company, Holyoke, Mass.
Ac. June 14, 1926.

Bradbury, James W.
The Textile Development Co., 80 Federal St., Boston, Mass.
Tech. April 16, 1926.

Bradbury, Thomas
Supt., Wamsutta Mills, New Bedford, Mass.
Ac. May 3, 1918.

Bradley, Walter H.
Amoskeag Mfg. Co., Manchester, N. H.
Ac. April 28, 1910.

Brady, Frank A.
Supt., Stevens Mfg. Co., 914 Rock St., Fall River, Mass.
Ac. October 20, 1917.

Brayton, Frank L.
Sales Mgr., Fitchburg Yarn Co., Fitchburg, Mass.
Ac. November 13, 1924.

Brierley, Joseph H.
Wm. H. Lorimer & Sons Co., Ontario and Lawrence Sts., Philadelphia, Pa.
Ac. September 21, 1905.

Brightman, Donald J.
Asst. Mgr., Textile Div., Fiske Rubber Co., New Bedford, Mass.
Ac. June 1, 1923.

Broadbent, James T.
Pres. and Gen. Mgr., Standard Textile Products Co., 320 Broadway, New York City.
Ac. April 28, 1904.

Bromley, Ernest
Supt., Suncook Mills, Suncook, N. H.
Ac. April 28, 1910.

Bromley, Joseph H.
Chairman, Quaker Lace Co., Philadelphia, Pa.
Ac. September 21, 1905.

Brooks, Clarence B.
Vice-Pres., Utica Steam and Mohawk Valley Cotton Mills, Chadwicks, N. Y.
Ac. May 13, 1927.

Brooks, Henry G.
Treas., E. A. Shaw & Co., 160 State St., Boston, Mass.
A.S.R. June 15, 1931.

Broughton, C. F.
Treas., Wamsutta Mills, New Bedford, Mass.
Ac. October 20, 1917.

Brown, Charles N.
Pres. and Treas., The Lincoln Cotton Mill Co., Evansville, Ind.
Ac. October 29, 1918.

Brown, Frederick R.
Du Pont Rayon Company, 2 Park Ave., New York City.
A.S.R. March 4, 1927.

Brown, George G.
Treas., The David Brown Co., Foster and Market Sts., Lawrence, Mass.
As. December 27, 1918.

Brown, Stuart F.
Treas., Whitinsville Spinning Ring Co., Whitinsville, Mass.
As. March 2, 1922.

Brush, Charles N.
Pres., Cooper & Brush, Inc., 53 State St., Boston, Mass.
A.S.R. June 15, 1931.

Bryant, Fred C.
Curtis & Marble Machine Co., 200 Fifth Ave., New York City.
As. May 1, 1924.

Buckley, Charles E.
Mfg. Agent, Whitman Mills, New Bedford, Mass.
Ac. April 26, 1917.

Buckley, William H.
Mfg. Agent, The Baltic Mills Co., Baltic, Conn.
Ac. April 30, 1909.

Bucklin, Harris H.
Asst. Treas., Interlaken Mills, Phenix, R. I.
S.R. Oct. 29, 1918.

Budlong, Frederick R.
Supt., Coventry Co., Anthony, R. I.
Ac. April 24, 1923.

Bullard, W. Irving
Union League Club, Chicago, Ill.
Ac. September 11, 1912.

Bunker, Gordon
Bliss, Fabyan & Co., 32 Thomas St., New York City.
Ac. October 14, 1926.

Burgess, Robert
3 Bradford Court, Newton Centre, Mass.
Ac. April 27, 1892.

Burke, John Edward
The Textile Development Co., 80 Federal St., Boston, Mass.
Tech. October 25, 1928.

Burnham, Alfred H.
P. O. Box 38, Station F, Baltimore, Md.
Ac. April 26, 1900.

Burnham, Hervey
P. O. Box 503, Suncook, N. H.
Ac. April 27, 1899.

Burns, Alfred
Supt., Manville Jenckes Co., Pawtucket, R. I.
Ac. October 29, 1918.

Burns, William H.
Victory Mills, Victory Mills, N. Y.
Jr. Tech. January 17, 1927.

Burton, Harry H.
Vice-Pres. and Gen. Mgr., Slater Mills, Inc., Webster, Mass.
Ac. June 14, 1926.

Bush, S. D. & Co.
James J. Walsh, Partner, 153 Milk St., Boston, Mass.
As. Sus. June 15, 1931.

Butler, Arthur Cecil
Leigh & Butler, 222 Summer St., Boston, Mass.
As. April 28, 1904.

Butler Mill
Morgan Butler, Treas., 77 Franklin St., Boston, Mass.
Sus. October 6, 1921.

Butler, Morgan
Treas., Butler Mill, 77 Franklin St., Boston, Mass.
Ac. April 30, 1914.

Butler, William M.
Pres., Butler Mill, 77 Franklin St., Boston, Mass.
Ac. April 28, 1910.

Butterworth, Harry W.
Chairman of Board, H. W. Butterworth & Sons Co., York and Cedar Sts., Philadelphia, Pa.
As. October 28, 1897.

Butterworth, H. W., & Sons Co.
Harry W. Butterworth, Chairman of Board, Philadelphia, Pa.
As. Sus. September 12, 1917.

Butterworth, J. Ebert
Vice-Pres., H. W. Butterworth & Sons Co., Philadelphia, Pa.
As. October 31, 1930.

Butterworth, Samuel T.
Agent, The Lawton Mills Corp., Plainfield, Conn.
Ac. Sept. 21, 1905.

Buxton, G. Edward
Pres., B. B. & R. Knight Corp., 715 Hospital Trust Bldg., Providence, R. I.
Ac. April 24, 1923.

Buzzell, William O.
Agent, Wamsutta Mills, New Bedford, Mass.
Ac. October 27, 1927.

Cabot Mfg. Co.
Nathaniel F. Ayer, Treas., 77 Franklin St., Boston, Mass.
Sus. April 1, 1931.

Cadwell, William H.
Agent, Nashua Mfg. Co., Jackson Mill, Nashua, N. H.
Ac. April 26, 1900.

California Cotton Mills Co.
J. R. Millar, Gen. Mgr., Oakland, Calif.
Sus. February 8, 1921.

Campbell, Ronald B.
Wellington, Sears & Co., 65 Worth St., New York City.
Ac. July 31, 1928.

Carpenter, Chester W.
Costenoga Mills, Lancaster, Pa.
Ac. May 1, 1924.

Carpenter, Frank L.
Treas., Davis Mills, Fall River, Mass.
Ac. May 3, 1918.

Carpenter, Lewis M.
Jewett City, Conn.
Ac. April 7, 1919.

Catterall, John
Agent, New Bedford Spinning Company, New Bedford, Mass.
Ac. April 16, 1926.

Celanese Corp. of America
E. E. Boreham, Treas., 180 Madison Ave., New York City.
As. Sus. October 31, 1929.

Chace, Benjamin C.
Gen. Mgr., Crown Mfg. Co., Pawtucket, R. I.
Ac. September 21, 1905.

Chapman, Laurance D.
Pres. and Treas., Hill & Cutler Co., New Bedford, Mass.
A.S.R. March 7, 1924.

Chapman, Robert
Pres., Cheraw Cotton Mills, Inc., Cheraw, S.C.
Ac. April 13, 1911.

Chase, Charles A.
Mgr., Industrial Dept., General Electric Co., 140 Federal St., Boston, Mass.
As. June 2, 1922.

Chase, Charles B.
Gen. Mgr. Stevens Mfg. Co., P. O. Box 45, Fall River, Mass.
Ac. April 17, 1908.

Chase, Frederic L.
F. A. Chase & Co., 253 West Exchange St., Providence, R. I.
As. March 2, 1923.

Chase, Raymond H.
Supt., Potte Fine Spinners, Inc., Pawtucket, R. I.
Ac. October 25, 1928.

Chase, Simeon B.
Treas., King Philip Mills, Fall River, Mass.
Ac. April 21, 1875.

Chidsey, John T.
Pres., Veeders-Root, Inc., Hartford, Conn.
A.S.R. October 31, 1929.

Chisholm, Ralph L.
Universal Winding Co., 95 South St., Boston, Mass.
Ac. March 22, 1929.

Church, B. LeBaron
Sales Mgr., New Bedford Cotton Waste Co., 43 Church St., New Bedford, Mass.
Ac. November 13, 1924.

Clapp, Charles E.
Berkshire Fine Spinning Associates, Inc., 40 Worth St., N. Y. C.
Ac. May 24, 1929.

Clark, Avery B.
20 Mansur St., Lowell, Mass.
Ac. April 27, 1905.

Clark, Charles H.
131 Freeman St., Brookline, Mass.
As. January 10, 1930.

Clark, George P.
Pres., Columbia Narrow Fabric Co., Shannock,
R. I.
Ac. April 16, 1926.

Clayton, William L.
Anderson, Clayton & Co., Houston, Texas.
{ June 1, 1923.
{ L. June 1, 1923.

Clextor, Thomas J.
131 State St., Boston, Mass.
As. September 13, 1906.

Coates, J. & P. (R. L.) Inc.
Kenneth MacColl, Vice-Pres., Pawtucket, R. I.
Sus. October 27, 1927.

Coates, Wallace B., Jr.
Agent, Farwell Bleachery, North Andover, Mass.
Ac. May 3, 1918.

Cobb, F. S.
Pres., Seamans & Cobb Co., Hopkinton, Mass.
Ac. June 5, 1925.

Coburn, James E.
10 Frye St., Lewiston, Me.
Ac. October 4, 1907.

Coffin, Langdon
Purchasing Agent, Samson Cordage Works, 144
Bellevue Ave., Newton, Mass.
Ac. September 29, 1911.

Coffin, Melvin H.
National Ring Traveler Co., Providence, R. I.
As. October 2, 1902.

Colby, Alfred E.
Treas., Pacific Mills, 140 Federal St., Boston,
Mass.
Ac. April 6, 1922.

Collins, John A.
Supt., Suncook Mills, Suncook, N. H.
Ac. April 6, 1928.

Colman, Howard D.
Pres., Parber-Colman Co., Rockford, Ill.
As. April 27, 1905.

Colquhoun, M. W.
Box 1587, Boston, Mass.
Ac. August 3, 1921.

Comins, Frank B.
American Moistening Co., 131 State St., Boston,
Mass.
Ac. October 28, 1891.

Connolly, Harold G.
Cotton Technician, Nashawena Mills, New
Bedford, Mass.
Tech. May 1, 1930.

Connor, Edward E.
The Viscose Company, Providence, R. I.
As. May 3, 1929.

Cook, Edward H.
Treas., Quissett Mills, New Bedford, Mass.
Ac. April 28, 1910.

Cook, G. Arthur
Treas., West Boylston Mfg. Co., 265 Main St.,
Easthampton, Mass.
Ac. April 25, 1907.

Cook, Kenneth B.
Manville Jenckes Co., Pawtucket, R. I.
Ac. July 15, 1922.

Coolidge, Amory
Asst. Treas., Pepperell Mfg. Co., P. O. Box 5075,
Boston, Mass.
Ac. October 14, 1925.

Coon, J. L.
Atkinson, Haserick & Co., 152 Congress St.,
Boston, Mass.
As. May 3, 1918.

Cooper & Brush, Inc.
Charles N. Brush, Pres., 53 State St., Boston,
Mass.
As. Sus. June 15, 1931.

Cooper, Archie C.
Sales Dir., Oliver Johnson & Co., Inc., New
Bedford, Mass.
As. October 27, 1927.

Cooper, James M.
Manville Jenckes Co., Manville, R. I.
Jr. Tech. January 17, 1927.

Corn Products Refining Co.
Charles P. Slocum, 47 Farnsworth St., Boston,
Mass.
As. Sus. March 2, 1918.

Coxen, Harold M.
Hoosac Cotton Mills, North Adams, Mass.
S.R. February 21, 1918.

Cramer, Stuart W.
Pres., Cramerton Mills, Inc., Cramerton, N. C.
Ac. April 26, 1906.

Cranska, Lucius B.
Pres., The Floyd Cranska Co., Moosup, Conn.
Ac. September 21, 1905.

Crawford, Dana R.
P. O. Box 1545, Providence, R. I.
As. October 14, 1925.

Crocker, Paul E.
Controller, Pepperell Mfg. Co., 160 State St.,
Boston, Mass.
Ac. January 17, 1927.

Crompton & Knowles Loom Works
Homer Gage, Pres., Worcester, Mass.
As. Sus. July 20, 1918.

Cronkhite, W. W.
General Electric Co., Schenectady, N. Y.
A.S.R. May 24, 1917.

Crowe, Thomas
The Textile Development Company, 80 Federal
St., Boston, Mass.
Tech. May 3, 1929.

Crowley, Stephen H.
Asst. Gen. Mgr., Lewiston Bleachery & Dye
Works, Lewiston, Me.
Ac. August 10, 1927.

Crown Mfg. Co.
Benjamin C. Chace, Gen. Mgr., Pawtucket, R. I.
Sus. October 10, 1918.

Cumnock, John
Gen. Mgr., Altavista Cotton Mills, Altavista, Va.
Ac. April 30, 1914.

Cunningham, George C.
Treas., Indian Head Mills of Alabama, 48
Franklin St., Boston, Mass.
Ac. April 6, 1922.

Curtis & Marble Machine Co.
Edwin H. Marble, Pres., Worcester, Mass.
As. Sus. April 8, 1919.

Cutter, John
Nashua Mfg. Co., 48 Franklin St., Boston, Mass.
Ac. June 5, 1925.

Dana, Philip
Treas., Dana Warp Mills, Westbrook, Me.
Ac. September 29, 1898.

Dana Warp Mills
Philip Dana, Treas., Westbrook, Me.
Sus. May 12, 1917.

Daniels, F. G.
Pres., Dominion Textile Co., Ltd., 710 Victoria
Sq., Montreal, Quebec, Canada.
Ac. April 17, 1908.

Danker, Daniel J.
73 Dean Rd., Brookline, Mass.
April 28, 1904.
(L. April 25, 1907.)

Danvers Bleachery
Ernest N. Hood, Treas., Peabody, Mass.
Sus. April 1, 1931.

Davis, Edward H.
Pelzer Mfg. Co., 40 Worth St., New York City.
Ac. April 6, 1923.

Davis, Poncet
Pres., Poncet Davis Co., 226 Ohio Bldg., Akron, Ohio.
As. June 1, 1923.

Davis, T. A.
Anderson, Clayton & Co., 92 State St., Boston, Mass.
A.S.R. June 1, 1923.

Dawson, Arthur O.
Pres., Canadian Cottons, Ltd., 760 Victoria Sq., Montreal, Quebec, Canada.
Ac. October 4, 1907.

Day, Morgan G.
Asst. Agent, Indian Orchard Co., Indian Orchard, Mass.
Ac. May 3, 1921.

Dean, Milton O.
Agent, Edwards Mfg. Co., Augusta, Me.
Ac. December 1, 1921.

Deering, Milliken & Co., Inc.
79 Leonard St., New York City.
As. Sus. November 26, 1919.

Deschteaux, George N.
Herbert H. French Company, 100 Summer St., Boston, Mass.
A.S.R. December 8, 1928.

Dexter, Charles
Rumford Textile Co., Phillipsdale, R. I.
Ac. May 13, 1927.

Dexter, Henry C.
Sales Agent, Fales & Jenks Machine Co., Pawtucket, R. I.
Ac. April 25, 1901.

Dickinson, William E.
50 Eustis Ave., Lowell, Mass.
Tech. October 25, 1928.

Dineen, John J.
Supt., La Tosca Yarn Mill, Utica, N. Y.
Ac. April 30, 1914.

Dixon, Ezra
Pres., Dixon Lubricating Saddle Co., Bristol, R. I.
As. September 21, 1905.

Dolphin, Joseph
Mgr., Canadian Cottons, Ltd., Marysville, New Brunswick, Canada.
Ac. May 3, 1918.

Dooley, John S.
William J. Dooley & Co., 60 Congress St., Boston, Mass.
As. February 14, 1919.

Douty, Daniel E.
Vice-Pres. and Gen. Mgr., U. S. Testing Co., Inc., 1415 Park Ave., Hoboken, N. J.
Ac. October 2, 1913.

Dow, Robert
135 Freeman Parkway, Providence, R. I.
Ac. April 25, 1901.

Dowling, William T.
Treas., Stevens Linen Works, 78 Chauncy St., Boston, Mass.
S.R. April 1, 1931.

Downer, Arthur T.
Pres., New England Laundries, Inc., Converse Pl., Winchester, Mass.
As. June 1, 1923.

Draper, Arthur J.
Pres., Icemeorlee Cotton Mills, Monroe, N. C.
Ac. April 23, 1903.

Draper, B. H. Bristow
Pres., Draper Corporation, Hopedale, Mass.
(L. April 24, 1913.
(L. May 7, 1913.)

Draper Corp.
B. H. Bristow Draper, Pres., Hopedale, Mass.
As. Sus. August 10, 1917.

Dresser, Henry C.
Agent, Beaver Mills, North Adams, Mass.
Ac. April 27, 1905.

Duckworth, Harry S.
Gen. Agent, Cranston Print Works Co., Cranston, R. I.
Ac. April 17, 1908.

Duff, John
David Duff & Son, New Bedford, Mass.
As. April 28, 1910.

Duffy, Walter F.
Pres. and Treas., Acme Ball Bearing Spindle Corp., Franklin, N. H.
As. November 21, 1927.

Dumaine, Frederic C.
Treas., Amoskeag Mfg. Co., P. O. Box 5228, Boston, Mass.
Ac. April 25, 1901.

Duncan, David
Asst. to Agents, Lonsdale Co., 50 South Main St., Providence, R. I.
Ac. January 11, 1926.

Dunlap, F. Lincoln
Asst. Supt., Flint Mills, Fall River, Mass.
Ac. February 2, 1923.

Dunn, John C.
The Real Reel Corp., Phillipsdale, R. I.
As. May 3, 1929.

Du Pont de Nemours, E. I. & Co., Inc.
R. S. Lunt, 140 Federal St., Boston, Mass.
As. Sus. October 27, 1927.

Du Pont Rayon Company
F. R. Brown, 2 Park Ave., New York City.
As. Sus. March 4, 1927.

Durfee, Nathan
Vice-Pres., American Printing Co., Fall River, Mass.
Ac. April 27, 1916.

Durfee, Randall N., Jr.
Lewiston Bleachery & Dye Works, 160 State St., Boston, Mass.
Ac. October 27, 1927.

Dwight Mfg. Co.
James Thompson, Asst. Treas., 40 Worth St., N. Y. C.
Sus. December 5, 1918.

Eames, Charles H.
Pres., Lowell Textile Institute, Lowell, Mass.
Ac. April 25, 1907.

Earle, Frederic E.
Pres. and Treas., F. E. Earle Co., New Bedford, Mass.
As. April 6, 1923.

Earle, G. Kenneth
Pres., G. Kenneth Earle Co., 4 Market Sq., Providence, R. I.
As. July 10, 1925.

Eastwood, Benjamin, Jr.
177 Van Houten St., Paterson, N. J.
Ac. April 13, 1911.

Eddy, Jesse P.
Treas., Tillinghast, Stiles Co., P. O. Box 1522, Providence, R. I.
Ac. September 21, 1905.

Edwards, D. F.
Pres., Saco-Lowell Shops, 147 Milk St., Boston, Mass.
A.S.R. May 18, 1917.

Edwards Mfg. Company
George E. Spofford, Treas., Augusta, Me.
Sus. December 13, 1929.

Ellis, Percy
Cotton Buyer, Hill Manufacturing Co., Augusta, Me.
Ac. October 31, 1929.

Ely, Lloyd C.
The Textile Development Co., 80 Federal St., Boston, Mass.
Tech. June 8, 1928.

Emery, Arthur L.
14 Brandon Road, Charlotte, N. C.
Ac. April 5, 1921.

Erhard, George P.
Pres., The Stafford Co., Readville, Mass.
A.S.R. April 1, 1918.

Ernst & Ernst
Russell C. Harrington, 1702 New Industrial Trust Bldg., Providence, R. I.
As. Sus. March 22, 1929.

Erwin, William A.
Pres., Erwin Cotton Mills, West Durham, N. C., Ac. September 29, 1911.

Estes, George H.
Asst. Agent, Continental Mills, P. O. Box 427, Lewiston, Me.
Ac. May 5, 1922.

Everett, James R.
Vice-Pres. and Gen. Mgr., Wonalancet Co., Nashua, N. H.
S.R. March 15, 1918.

Everett, Richard M.
Pacific Mills, 140 Federal St., Boston, Mass.
Ac. December 7, 1928.

Fabyan, Francis W.
Bliss, Fabyan & Co., 45 Franklin St., Boston, Mass.
Ac. September 29, 1911.

Falvey, Charles A.
J. M. Prendergast & Co., 140 Federal St., Boston, Mass.
A.S.R. October 31, 1929.

Farlow, John S.
Asst. Treas., Whittenton Mfg. Co., 50 State St., Boston, Mass.
S.R. January 30, 1925.

Farr Alpaca Company
Addison L. Green, Holyoke, Mass.
Sus. May 1, 1930.

Farrell, J. E.
Supt., West Boylston Mfg. Co., Easthampton, Mass.
Ac. June 6, 1924.

Farwell Bleachery
Nathaniel F. Ayer, Pres., 77 Franklin St., Boston Mass.
Sus. April 1, 1931.

Faulkner, Vernon L.
Richard Borden Mfg. Co., Fall River, Mass.
Ac. May 1, 1930.

Faunce, Vernon C.
Gen. Supt., Bates Mfg. Co., Lewiston, Me.
Ac. April 17, 1908.

Ferguson, James T.
1451 Main Street, Warren, R. I.
Ac. October 5, 1899.

Field, Frank S.
Asst. Treas., Massacmet Yarn Mills, Shattuckville, Mass.
{ October 25, 1895.
{ L. April 27, 1916.

Fingerhut, Charles F.
Treas., Utica Steam & Mohawk Valley Cotton Mills, Utica, N. Y.
Ac. May 13, 1927.

First National Bank of Boston
Charles F. Mills, Vice Pres., 67 Milk St., Boston, Mass.
As. Sus. October 27, 1927.

Fish, Charles H.
Union Club, Boston, Mass.
{ April 27, 1887.
{ L. April 28, 1904.

Fish, Myron C.
Treas. and Gen. Mgr., Rhode Island Yarn Co., 235 Charles St., Providence, R. I.
Ac. October 31, 1929.

Fisher, Andrew
Textile Review, 161 Summer St., Boston, Mass.
Ac. April 28, 1910.

Fisher, James D.
141 Milk St., Boston, Mass.
As. April 15, 1927.

Fisher, Robert H.
Du Pont Rayon Company, 938 Hospital Trust Bldg., Providence, R. I.
Ac. April 15, 1927.

Fisher, Russell T.
Secretary, The National Association of Cotton Mfrs., 80 Federal St., Boston, Mass.
Ac. October 31, 1929.

Fisher, Stuart D.
Fisher Mfg. Co., Fisherville, Mass.
Ac. July 10, 1925.

Fiske, Gardiner H.
Treas., Jackson, Fiske & Fisher, Inc., 141 Milk St., Boston, Mass.
A.S.R. June 15, 1931.

Fitchburg Yarn Co.
R. S. Wallace, Treas., Fitchburg, Mass.
Sus. November 1, 1918.

Flather, Frederick A.
Treas., Boott Mills, 79 Milk St., Boston, Mass.
{ April 29, 1891.
{ L. April 17, 1908.

Flather, Frederick
Boott Mills, Lowell, Mass.
{ May 1, 1924.
{ L. May 1, 1924.

Flather, John Rogers
Boott Mills, Lowell, Mass.
{ May 1, 1924.
{ L. May 1, 1924.

Flynn, George D.
V. P. Pocasset Mfg. Co., Fall River, Mass.
Ac. June 14, 1926.

Foley, John
Asst. Treas., Massasoit Mfg. Co., Fall River, Mass.
S. R. June 20, 1918.

Ford, William H.
F. B. Keech & Co., Providence, R. I.
A.S.R. April 26, 1928.

Forsaith, Charles Henry
Supt., Jackson Mill of Nashua Mfg. Co., Nashua, N. H.
Ac. October 14, 1925.

Foss, Eugene N.
11 Revere St., Jamaica Plain, Mass.
Ac. April 25, 1907.

Foss, Noble
Pres., Maverick Mills, 89 Broad St., Boston, Mass.
Ac. April 16, 1926.

Fowle, Edward D.
Bragdon, Lord & Nagle Co., Tenth Ave. at 36th St., New York City.
As. June 15, 1931.

Fowler, C. S.
Lorraine Mfg. Co. of New York, 40 Worth St., New York City.
Ac. June 29, 1920.

Fowler, E. T.
Treas. and Mgr., Foster Machine Co., Westfield, Mass.
As. April 26, 1906.

Fraker, George W.
Vice-Pres., National City Bank, New York City.
As. March 1, 1919.

France, Edward W.
Director, Philadelphia Textile School, Broad and Pine Sts., Philadelphia, Pa.
Ac. September 22, 1896.

Francis, T. A., & Co.
T. A. Francis, Providence, R. I.
As. Sus. August 1, 1919.

Francis, T. A.
T. A. Francis & Co., Providence, R. I.
A.S.R. August 1, 1919.

Franklin Process Company
William A. Traver, 564 Eddy St., Providence, R. I.
As. Sus. October 31, 1929.

Franklin Rayon Corporation
Royal Little, Vice-Pres., 86 Crary St., Providence, R. I.
As. Sus. October 27, 1927.

Freeman, Arthur C.
Vice-Pres., H. W. Butterworth & Sons Co., 1212 Turks Head Bldg., Providence, R. I.
Ac. April 27, 1899.

French, H. Carl
Sales Mgr. U. S. Bobbin & Shuttle Co., Manchester, N. H.
As. May 1, 1930.

French, Herbert F. Company
George N. Descoteaux, 100 Summer St., Boston, Mass.
As. Sus. December 8, 1928.

Friedman, Nathan H.
Sec. and Treas., The Harodite Finishing Company, North Dighton, Mass.
Ac. May 3, 1929.

Frisbie, Calvin H.
Pres., Totokett Mfg. Co., Norwich, Conn.
S. R. July 20, 1918.

Fritz, Frank R.
Asst. Treas., Nashua Mfg. Co., 48 Franklin St., Boston, Mass.
Ac. October 16, 1919.

Frost, Rufus S.
Crompton & Knowles Loom Works, Worcester, Mass.
As. April 15, 1927.

Frothingham, Theodore, Jr.
George H. McFadden & Bro., 211 Congress St., Boston, Mass.
A.S.R. October 29, 1918.

Gage, Homer
Pres., Crompton & Knowles Loom Works, Worcester, Mass.
A.S.R. July 20, 1918.

Gagnbin, Charles L.
41 Carlton St., Brookline, Mass.
As. April 30, 1914.

Gallant, Walter B.
Agent, Newmarket Mfg. Co., Newmarket, N. H.
Ac. February 2, 1922.

Gama, Salvado R.
Mgr. Machado, Gama & Co., Caixa Postal No. 2093, Rio de Janeiro, Brazil.
{ April 27, 1916.
{ L. April 26, 1917.

Gardner, William B.
Treas., Nashawena Mills, New Bedford, Mass.
Ac. September 23, 1909.

Garland, James P.
Vice-Pres. Garland Mfg. Co., Saco, Me.
As. April 16, 1926.

Garside, Alston H.
Garside Service Bureau, New York Cotton Exchange, Cotton Exchange Bldg., New York City.
As. April 16, 1926.

Gary, E. Stanley
Pres., James S. Gary & Sons, Inc., 204-206 American Bldg., Baltimore, Md.
Ac. October 1, 1903.

General Electric Company
West Lynn, Mass.
Gerard Swope, Pres., New York City.
W. W. Cronkhite, Schenectady, N. Y.
As. Sus. May 24, 1917.

Gibbs, E. Payson
Gen. Supt., Saco, Me.
Ac. September 23, 1909.

Gilliland, Charles L.
123 S. Broad St., Philadelphia, Pa.
Ac. October 2, 1913.

Gilmore, George L.
Middlesex Bleach, Dye & Print Works, Somerville, Mass.
Ac. April 29, 1916.

Glennon, John F.
Supt., Quissett Mill, New Bedford, Mass.
Ac. April 16, 1926.

Glennon, Thomas F.
Agent, Quissett Mill, New Bedford, Mass.
Ac. April 28, 1910.

Gniessin, Vladimir F.
Blythewood, S. C.
Ac. October 1, 1903.

Goddard Brothers
R. H. I. Goddard, Treas., Providence, R. I.
Sus. November 8, 1918.

Goddard, R. H. I.
Treas., Goddard Brothers, Providence, R. I.
S.R. November 8, 1918.

Godfrey, William C.
Treas. and Agent, Indian Orchard Co., Indian Orchard, Mass.
Ac. October 29, 1890.

Goerner, Gustav William
Roessler & Hasslacher Chemical Co., 40 Central St., Boston, Mass.
As. April 27, 1916.

Goff, Albert H.
Caro Cloth Co., Carolina, R. I.
Ac. April 25, 1907.

Goldman, Maurice A.
New England Southern Corp., 89 Broad St., Boston, Mass.
Ac. September 30, 1927.

Goldsmith, Wm. H., Jr.
Consulting Engr., 43 Garrison Rd., Brookline, Mass.
As. October 20, 1917.

Goodyear Cotton Mills, Inc.
H. B. Puckett, Asst. Treas., Goodyear, Conn.
Sus. February 8, 1918.

Gordon, C. B.
Chairman of Board, Dominion Textile Co., Ltd., 710 Victoria Sq., Montreal, Quebec, Canada.
Ac. September 13, 1906.

Gordon, Frederick B.
Pres., Columbus Mfg. Co., Columbus, Ga.
Ac. April 26, 1900.

Gould, William A.
American Supply Co., Providence, R. I.
As. December 6, 1926.

Gourley, Hugh J.
Water St., Warren, R. I.
Ac. September 8, 1922.

Goyette, A. Erland
Mgr., Joseph Noone's Sons Co., Peterboro, N. H.
{ May 5, 1922.
{ L. October 27, 1927.

Grandison, Ralph V.
Anderson, Clayton & Co., 92 State St., Boston, Mass.
As. June 29, 1920.

Gray, William H.
Pres. and Treas., Dedham Finishing Co., Dedham, Mass.
Ac. May 3, 1918.

Green, Addison L.
Farr Alpaca Company, Holyoke, Mass.
S.R. May 1, 1930.

Greene, Edwin Farnham
The Berkshire, 21 East 52nd St., New York City.
Ac. April 24, 1902.

Greene, F. Hartwell
Alexander Sprunt & Co., 45 Franklin St., Boston, Mass.
Ac. June 1, 1923.

Greene, S. Harold
Treas., Lawton Mills Corp., 77 Franklin St., Boston, Mass.
Ac. April 27, 1905.

Greenhalgh, George T.
Treas., Greenhalgh Mills, Pawtucket, R. I.
Ac. April 30, 1909.

Greenlaw, Henry C.
Agent, Bates Mfg. Co., Augusta, Me.
Ac. April 26, 1928.

Greenough, Allan B.
Northern Waste Co., Boston, Mass.
Ac. October 20, 1918.

Greenville Finishing Company
A. F. Shaw, Pres., Greenville, R. I.
Sus. June 14, 1926.

Greer, Samuel
173 Maple St., Danvers, Mass.
Ac. April 24, 1923.

Greer, William K.
Agent, Hoosac Cotton Mills, P. O. Box 258,
North Adams, Mass.
Ac. April 26, 1906.

Gridley, Oscar W.
Treas., Utica Knitting Co., Erie St., Utica, N. Y.
Ac. April 28, 1910.

Grinnell Mfg. Corp.
Joseph W. Webster, Treas., New Bedford, Mass.
Sus. March 18, 1918.

Griswoldville Mfg. Co.
Joseph W. Ballard, Treas., Griswoldville, Mass.
Sus. January 21, 1918.

Grosvenor, William
Pres., Grosvenor-Dale Co., P. O. Box 1384,
Providence, R. I.
Ac. April 28, 1910.

Guild, Bartlett
Celanese Corp. of America, 38 Chauncy St.,
Boston, Mass.
As. October 31, 1929.

Gunby, Frank M.
c/o Charles T. Main, 201 Devonshire St.,
Boston, Mass.
As. April 26, 1917.

Gurry, Ellis T.
Vice-Pres., Aurora Cotton Mills, River St.,
Aurora, Ill.
Ac. October 11, 1930.

H. & B. American Machine Co.
Edward L. Martin, Vice-Pres., P. O. Box 678,
Pawtucket, R. I.
As. Sus. June 15, 1931.

Haerry, John H.
Crompton Company, West Warwick, R. I.
Ac. October 25, 1928.

Hagan, Thomas H.
Vice-Pres., The Textile Development Co., 80
Federal St., Boston, Mass.
Ac. June 5, 1925.

Hague, Edwin D.
Whitin Machine Works, Whitinsville, Mass.
As. October 5, 1922.

Haley, Henry T.
Pres., Royal River Mills, Inc., Yarmouth, Me.
Ac. September 30, 1914.

Hall, C. G.
Vice-Pres., Lisbon Spinning Co., 89 Broad St.,
Boston, Mass.
S.R. April 1, 1931.

Hall, F. C.
Marshfield, Mass.
Ac. October 29, 1918.

Hall, F. Kilby
511 Commerce Bldg., 19th and Pennsylvania
Ave., Washington, D. C.
{ September 30, 1927.
{ L. February 10, 1928.

Hall, H. Dwight
Sec., Boston Mfrs. Mutual Fire Ins. Co., 135
Franklin St., Boston, Mass.
As. June 1, 1923.

Hall, Lindsay S.
Supt., Devon Mills, Inc., New Bedford, Mass.
Ac. October 16, 1919.

Hall, Walter B.
10 High St., Room 721, Boston, Mass.
Ac. April 25, 1901.

Hanaford, John H.
89 State St., Boston, Mass.
As. May 3, 1918.

Hannah, George K.
Supt., Parkhill Div. of the Amoskeag Mfg. Co.,
Fitchburg, Mass.
Ac. April 24, 1923.

Hansen, Harold C.
Boston Transcript, 324 Washington St., Boston,
Mass.
{ September 23, 1909.
{ L. September 23, 1910.

Harden, Henry C.
Agent, Dwight Mfg. Co., Somersworth, N. H.
Ac. May 3, 1918.

Harding, Charles L.
Pres., Whitman Mills, 77 Franklin St., Boston,
Mass.
Ac. September 11, 1912.

Harmony Mills
John Skinner, Treas., Cohoes, N. Y.
Sus. May 10, 1917.

Harrington, Russell C.
Ernst & Ernst, 1702 New Industrial Trust Bldg.,
Providence, R. I.
A.S.R. March 22, 1929.

Harris, Thomas
109 Hazard Ave., Providence, R. I.
Ac. January 11, 1926.

Harrison, Gilbert D.
Vice-Pres. and Gen. Mgr., Lewiston Bleachery &
Dye Works, Lewiston, Me.
Ac. January 12, 1922.

Harrison, Herbert
Agent, John Hetherington & Sons, Ltd., 49
Federal St., Boston, Mass.
As. January 14, 1919.

Harrover, Francis D.
Asst. Agent, The Wauregan Co., Wauregan,
Conn.
Ac. April 4, 1924.

Harrover, Gordon
Vice-Pres. and Asst. Treas., The Wauregan Co.,
Danielson, Conn.
Ac. February 2, 1923.

Hartley, Frank
Frank Hartley & Son, 146 Summer St., Boston,
Mass.
Ac. April 27, 1905.

Hastings, Walter M.
Agent, Monomac Spinning Co., Lawrence, Mass.
Ac. April 23, 1903.

Hatch, T. Edward
Asst. Treas., Greenwich Bleachery Company,
80 Federal St., Boston, Mass.
Ac. October 27, 1927.

Hathaway, Edgar F.
Vice-Pres. and Gen. Mgr., Shawmut Engineering Co., 195 Freeport St., Dorchester, Mass.
As. April 27, 1905.

Hathaway, Horatio
Pres., Acushnet Mill Corp., 8 Beacon St., Boston, Mass.
As. April 16, 1926.

Hathaway Mfg. Co.
J. E. Stanton, Jr., Treas., New Bedford, Mass.
Sus. November 21, 1918.

Hathaway, Russell
Research Associates, 27 Albany St., Boston, Mass.
Ac. January 6, 1928.

Haurowitz, Stephen Carl
L. Haurowitz-Grattau, Prague II, Vaclavske 14, Czechoslovakia.
Ac. April 6, 1922.

Havey, J. Fred
Mgr., Foreign Sales Dept., Saco-Lowell Shops, 147 Milk St., Boston, Mass.
As. September 17, 1910.

Hawes, G. R.
Barrington Associates, 220 E. 42nd St., New York City.
A.S.R. May 3, 1929.

Hayes, Clifford B.
Pacific Mills, Lyman Division, Lyman, S. C.
Ac. January 17, 1927.

Hayward, Harry J.
New England Southern Corp., 89 Broad St., Boston, Mass.
Ac. August 10, 1927.

Hazard, William H., Jr.
The Textile Development Co., 80 Federal St., Boston, Mass.
Tech. April 16, 1926.

Heap, Charles F.
369 Florence St., Fall River, Mass.
Ac. April 30, 1909.

Hedrick, Charles C.
c/o Mitsubishi Shoji Kaisha, Ltd., 15 Ando-jibashidori, 3 Chome, Minami-Ku, Osaka, Japan.
As. April 23, 1903.

Helfenbein, Robert
105 George St., Fall River, Mass.
Jr. Tech. January 17, 1927.

Hendry, Robert A.
Supt. of Finishing, Nashawena Mills, New Bedford, Mass.
Ac. June 14, 1926.

Hentz, H., & Company
W. T. Priestley, 60 Beaver St., New York City.
As. Sus. April 26, 1928.

Herrick, Clifford E.
Mill Devices Company, 38 Franklin St., Providence, R. I.
As. June 14, 1926.

Herrick, Robert F.
Pres., Pacific Mills, 140 Federal St., Boston, Mass.
Ac. April 27, 1916.

Herron, Alexander T.
New York Mills Corp., New York Mills, N. Y.
Ac. April 4, 1924.

Hersey, Henry H.
Mgr. Roller Leather Dept., A. C. Lawrence Leather Co., 1210 Woodside Bldg., Greenville, S. C.
As. April 16, 1926.

Heyes, Fred L.
Agent, Nonquitt Spinning Co., 449 Clinton St., New Bedford, Mass.
Ac. September 11, 1915.

Hill, John H.
Steel Heddle Mfg. Co., Providence, R. I.
As. April 16, 1926.

Hill & Cutler Co.
Laurence D. Chapman, Pres. and Treas., 1 Pearl St., New Bedford, Mass.
As. Sus. March 7, 1924.

Hill Mfg. Co.
George E. Spofford, Treas., 9 Green St., Augusta, Me.
Sus. June 15, 1923.

Hilliman, Ralph G.
Asst. Supt., Samson Cordage Works, Shirley, Mass.
Ac. April 16, 1926.

Hinckley, Everett H.
Borne-Scrymser Co., 17 Battery Pl., New York City.
As. August 3, 1921.

Hobbs, A. F.
Pres., New York Mills Corp., New York Mills, N. Y.
S.R. February 10, 1920.

Hobbs, Franklin W.
Pres., Arlington Mills, 78 Chauncy St., Boston, Mass.
April 27, 1899.
{ L. April 18, 1917.

Hobbs, Wm. M.
Pres., Sudanette Company, Inc., New Bedford, Mass.
S.R. October 31, 1929.

Hodges, Charles E.
Pres., American Mutual Liability Ins. Co., 142 Berkeley St., Boston, Mass.
As. April 17, 1908.

Holbrook, H. G.
The Kendall Co., Walpole, Mass.
S.R. August 3, 1921.

Holcomb, Clark W.
New Bedford Boiler & Machine Co., P. O. Box 650, New Bedford, Mass.
Ac. September 21, 1905.

Holgate, Benjamin
Agent, Boott Mills, Lowell, Mass.
Ac. January 12, 1922.

Holmes, Charles M.
Holmes Mfg. Co., New Bedford, Mass.
Ac. April 27, 1899.

Holmes Mfg. Co.
Daniel R. Weedon, Treas., New Bedford, Mass.
Sus. September 18, 1917.

Holt, John H.
Treas., Luther Mfg. Co., P. O. Box 57, Fall River, Mass.
April 23, 1903.
{ L. February 25, 1920.

Homer, Arthur C.
Treas., Pilgrim Mills, Fall River, Mass.
S.R. July 17, 1917.

Hood, Ernest N.
Treas., Naumkeag Steam Cotton Co., Salem, Mass.
Ac. October 20, 1917.

Hook, Russell W.
Textile Chemist, Arthur D. Little, Inc., 30 Charles River Road, Cambridge, Mass.
Ac. April 26, 1928.

Hooper, James P.
Vice-Pres., William E. Hooper & Sons Co., Baltimore, Md.
Ac. May 3, 1918.

Hooper, Katrine
6 Newbury St., Boston, Mass.
As. Sus. May 1, 1930.

Hooper, Robert P.
Treas. Hooper Sons Mfg. Co., Juniper and Cherry Sts., Philadelphia, Pa.
Ac. September 21, 1905.

Hoosac Cotton Mills
Harold M. Coxen, Treas., North Adams, Mass.
Sus. February 21, 1918.

Hopkinson, Thomas
Hopkinson Dyeing & Textile Works, Fall River, Mass.
Ac. April 25, 1912.

Hopson, Harry B.
Green & Hopson, Green Bldg., Springfield, Mass.
Ac. April 28, 1904.

Horton, Herbert Roy
J. & P. Coats (R. I.) Inc., 614 East Ave., Pawtucket, R. I.
Ac. March 4, 1927.

Houghton, Harry E.
89 Water St., Warren, R. I.
Ac. April 30, 1914.

Howard Bros. Mfg. Co.
Herbert Midgley, Pres. and Gen. Mgr., Worcester, Mass.
As. Sus. January 22, 1918.

Howe, Dudley R.
Lockwood Greene, Engineers, Inc., 24 Federal St., Boston, Mass.
Ac. October 5, 1923.

Howe, Frederick W.
Vice-Pres., Crompton & Knowles Loom Works, Providence, R. I.
As. April 24, 1902.

Howe, Parkman D.
Universal Winding Co., 95 South St., Boston, Mass.
Ac. September 11, 1915.

Howe, Percival S., Jr.
Wellington, Sears & Co., 65 Worth St., New York City.
Ac. March 2, 1923.

Howe, Woodbury K.
Asst. Supt., Merrimack Mfg. Co., Lowell, Mass.
Ac. June 7, 1919.

Howland, Weston
Treas., Warwick Mills, 201 Devonshire St., Boston, Mass.
Ac. May 1, 1924.

Hubbard, Samuel T., Jr.
Hubbard Bros. & Co., 66 Beaver St., New York City.
As. May 3, 1929.

Huggins, Gurry E.
79 Worth St., New York City.
As. April 30, 1914.

Hunnewell, Arnold W.
Asst. Treas., Nashua Mfg. Co., 48 Franklin St., Boston, Mass.
As. May 3, 1921.

Hunter, Henry P.
Supt., Equinox Mill & Gluck Mills, Anderson, S. C.
Ac. April 24, 1913.

Huntoon, Harrison B., Jr.
Treas., Providence Braid Co., P. O. Box 1271, Providence, R. I.
Ac. June 1, 1923.

Huntoon, Maxwell C.
Pres., Woodlawn Finishing Co., P. O. Box 1211, Providence, R. I.
Ac. June 1, 1923.

Hyslop, Samuel
Newton, Mass.
Ac. September 30, 1908.

Inches, Charles E.
115 Freeman St., Brookline, Mass.
Ac. May 4, 1920.

Interlaken Mills
Harris H. Bucklin, Asst. Treas., Phenix, R. I.
Sus. October 29, 1918.

Irvine, Robert A.
Supt., Lancaster Mills, Clinton, Mass.
Ac. December 6, 1926.

Iselin, Oliver
William Iselin & Co., 18 Thomas St., New York City.
Ac. May 13, 1927.

Jackson, Fiske & Fisher, Inc.
Gardiner H. Fiske, Treas., 141 Milk St., Boston, Mass.
As. Sus. June 15, 1931.

Jackson, N. Baxter
Vice-Pres., Chemical National Bank, 165 Broadway, New York City.
As. February 5, 1926.

Jackson, P. T.
Pres., Jackson, Fiske & Fisher, Inc., Cotton Mills, P. O. Box 2035, Boston, Mass.
Ac. September 21, 1905.

Jackson, S. Eugene
Asst. Treas., Crown Mfg. Co., Pawtucket, R. I.
Ac. May 1, 1924.

Jamieson, Joseph B.
Treas., J. B. Jamieson Co., 38 Chauncy St., Boston, Mass.
Ac. October 2, 1902.

Jamieson, Philip S.
Vice-Pres., J. B. Jamieson Co., 38 Chauncy St., Boston, Mass.
Ac. June 14, 1926.

Jelieme, W. O.
Farley Rd., Short Hills, N. J.
Ac. August 5, 1919.

Jenkins, Arthur L.
Asst. Treas., Emmons Loom Harness Co., Lawrence, Mass.
As. April 26, 1928.

Jennings, Edward B.
547 High St., Fall River, Mass.
Ac. September 29, 1898.

Jennings, William H.
Treas., Algonquin Printing Co., Fall River, Mass.
S.R. November 1, 1918.

Johnson, Edward M.
Vice-Pres. and Treas., Arnold, Hoffman & Co., Inc., P. O. Box 1376, Providence, R. I.
As. April 29, 1915.

Jones, Ernest G.
Cooper & Brush, Boston, Mass.
As. May 5, 1919.

Judson, William D.
Parker, Wilder & Co., 78 Leonard St., New York City.
A.S.R. November 23, 1918.

Jury, Alfred E.
Agent, Winnsboro Mills, Winnsboro, S. C.
As. September 16, 1916.

Kay, George R.
Fisher Mfg. Co., Fisherville, Mass.
Tech. October 27, 1927.

Kay, K.
Binny & Co. (Madras) Ltd., 7 Armenian St., Madras, India.
Ac. June 6, 1924.

Keech, F. B., & Co.
W. H. Ford, Providence, R. I.
As. Sus. April 26, 1928.

Kelley, Ahira Baker
Bemis Bro. Bag Co., 40 Central St., Boston, Mass.
Ac. April 13, 1911.

Kelley, Timothy J.
Vice-Pres., Brighton Mills, Passaic, N. J.
Ac. April 30, 1909.

Kendall, Henry P.
Pres., The Kendall Company, 80 Federal St., Boston, Mass.
Ac. April 29, 1915.

Kendall Co., The
H. G. Holbrook, Walpole, Mass.
Sus. August 3, 1921.

Kenney, Frank B.
Pres., T. C. Entwistle Co., 297 Market St., Lowell, Mass.
As. October 5, 1899.

Kenyon, Walter S.
American Thread Co., 260 West Broadway, New York City.
Ac. December 6, 1926.

Kern, William E., Jr.
Treas., Taber Mill, New Bedford, Mass.
Ac. September 23, 1909.

Kershaw, Elias H.
Berkshire Fine Spinning Associates, Inc., North Adams, Mass.
Ac. October 14, 1926.

Killheffer, Elvin H.
Vice-Pres., Newport Chemical Works, Inc., Passaic, N. J.
A.S.R. November 10, 1919.

Kimball, William N.
167 Woodland Rd., Woonsocket, R. I.
Ac. April 24, 1902.

King, Gelston T.
E. and F. King Co., Inc., 405 Atlantic Ave., Boston, Mass.
As. November 13, 1924.

Kirk, John T.
Agent, Nashawena Mill, 109 Bedford St., New Bedford, Mass.
Ac. April 27, 1905.

Klebart, Fred S.
The J. B. Ford Co., Wyandotte, Mich.
As. April 25, 1912.

Kleeb, Leonard, Jr.
Pepperell Mfg. Co., Fall River Div., Fall River, Mass.
Ac. May 3, 1918.

Knight, Jesse A.
Agent, Manomet Mills, New Bedford, Mass.
Ac. October 26, 1892.

Knowland, Richard G.
Bigelow-Sanford Carpet Co., 385 Madison Ave., New York City.
As. March 7, 1924.

Knowlton, Harold W.
Treas., The Textile Development Co., 77 Summer St., Boston, Mass.
Ac. June 5, 1925.

Knowlton, Harry W.
Pres., Knowlton & Newton Co., Inc., 545 Broadway, Lowell, Mass.
As. November 1, 1923.

Krishan, Maharaj
125 Mt. Washington St., Lowell, Mass.
Jr. Tech. October 31, 1929.

Kunhardt, L. H.
Vice-Pres., Boston Mfrs. Mutual Fire Ins. Co., 185 Franklin St., Boston, Mass.
As. October 2, 1913.

Lamb, P. Leroy
Treas., Nonquitt Mills, New Bedford, Mass.
S.R. April 1, 1931.

Lampert Mfg. Supply Co., Inc.
Samuel C. Lampert, Pres., 509 Broadway, New York City.
As. Sus. November 13, 1924.

Lampert, Samuel C.
Pres., Lampert Mfg. Supply Co., Inc., 509 Broadway, New York City.
A.S.R. November 13, 1924.

Lapham, Leonard C.
Treas., Nonquitt Spinning Co., New Bedford, Mass.
Ac. April 25, 1907.

Latham, Wendell G.
Supt., Pawtucket Dyeing & Bleaching Co., Pawtucket, R. I.
Ac. June 5, 1925.

Lawrence, James
James Lawrence & Co., 60 Batterymarch St., Boston, Mass.
A.S.R. June 28, 1918.

Lawrence, James & Co.
James Lawrence, 60 Batterymarch St., Boston Mass.
As. Sus. June 28, 1918.

Lawrence, John S.
80 Federal St., Boston, Mass.
Ac. April 30, 1909.

Lawton Mills Corp., The
W. F. Staples, Treas., Plainfield, Conn.
Sus. November 5, 1917.

Leach, Joseph S.
S. Gray Company, Walpole, Mass.
Ac. December 13, 1929.

Leach, Joseph T.
Supt., Durfee Mills, Fall River, Mass.
Ac. April 13, 1911.

Lee, William S.
Vice-Pres., Duke Power Co., P. O. Box 600, Charlotte, N. C.
Ac. April 13, 1911.

Leland, Richard C.
Warwick Mills, West Warwick, R. I.
Ac. March 4, 1927.

Leonard, Philip H.
25 High St., Ipswich, Mass.
Ac. June 14, 1926.

Leonard, Russell H.
Treas., Pepperell Mfg. Co., 160 State St., Boston, Mass.
Ac. April 29, 1915.

Leonard, Wardwell C.
Nashawena Mills, New Bedford, Mass.
Tech. March 2, 1923.

Lewis, J. Colby
Gen. Mgr., Arkwright Mills, Fall River, Mass.
Ac. November 13, 1924.

Libbey, W. Scott
Treas., W. S. Libbey Co., Lewiston, Me.
Ac. May 5, 1922.

Liberty, Earl J.
Pres. and Treas., Whitin Bros., Inc., Linwood, Mass.
Ac. March 4, 1927.

Lippitt, Henry F.
Chairman, Manville Jenckes Co., P. O. Box 1465, Providence, R. I.
Ac. April 27, 1881.

Lisbon Spinning Co.
C. G. Hall, Vice-Pres., 89 Broad St., Boston, Mass.
Sus. April 1, 1931.

Little, Royal
Franklin Rayon Corporation, 86 Crary St., Providence, R. I.
A.S.R. October 27, 1927.

Lockwood Co.
William E. Winchester, 79 Leonard St., New York City.
Sus. August 10, 1917.

Loftus, William H.
Vice-Pres., The Clark Thread Co., Newark, N. J.
Ac. October 28, 1897.

Loper, Ralph E., & Co.
Ralph E. Loper, Pres., 10 Purchase St., Fall River, Mass.
As. Sus. November 1, 1923.

Loper, Ralph E.
Pres., Ralph E. Loper & Co., 10 Purchase St., Fall River, Mass.
A.S.R. November 1, 1923.

Lord, Harry D.
Joseph Sykes Bros., (American) Inc., 137 Federal St., Boston, Mass.
Ac. April 27, 1905.

Lord, Henry S.
Bragdon, Lord & Nagle Co., 1427 Statler Bldg.,
Boston, Mass.
As. June 15, 1931.

Loring, Homer
Pres., United Merchants and Manufacturers, 901
Beacon Trust Bldg., Boston, Mass.
Ac. October 25, 1928.

Lorraine Mfg. Co.
James R. MacColl, Pres., Pawtucket, R. I.
Sus. May 24, 1917.

Low, J. J.
E. P. Walker & Co., 100 Milk St., Boston, Mass.
As. May 1, 1924.

Lowe, Arthur H.
Pres., Parkhill Div. of the Amoskeag Mfg. Co.,
Fitchburg, Mass.
Ac. October 30, 1889.

Lowe, John
Gen. Mgr., The Montreal Cottons, Ltd., Valley-
field, Quebec, Canada.
Ac. April 28, 1910.

Lowe, John
34 Robeson St., New Bedford, Mass.
Ac. November 23, 1925.

Lowe, Russell B.
Pres., Fitchburg Weaving Co., Fitchburg, Mass.
Ac. April 25, 1907.

Lowell, A. Lawrence, LL.D.
Pres., Harvard University, 19 Quincy St.,
Cambridge, Mass.
Hon. April 30, 1909.

Lowell, W. Frank
Saco-Lowell Shops, 147 Milk St., Boston, Mass.
As. October 14, 1926.

Lowry, Walter L.
Asst. Treas., Harmony Mills, Cohoes, N. Y.
Ac. March 22, 1929.

Luce, George E.
Tire Fabric Corp., Salmon Falls, N. H.
Ac. April 28, 1910.

Lunt, R. S.
E. I. du Pont de Nemours & Co., Inc., 140
Federal St., Boston, Mass.
A.S.R. October 27, 1927.

Luther Mfg. Co.
John H. Holt, Treas., P. O. Box 57, Fall River,
Mass.
Sus. February 1, 1918.

Lyall, William L.
Chairman of Board, Brighton Mills, Passaic, N. J.
Ac. October 26, 1892.

Lyle, E. T.
Vice-Pres., Carrier Engineering Corp., 39 Cort-
landt St., New York City.
As. March 6, 1925.

Lyman, Frank W.
Treas., Fitchburg Yarn Co., Fitchburg, Mass.
Ac. January 5, 1931.

Lyman, Herbert
Vice-Pres., Merrimack Mfg. Co., 53 State St.,
Boston, Mass.
Ac. October 25, 1895.

Lynch, T. J.
Allis-Chalmers Mfg. Co., 50 Congress St., Boston,
Mass.
As. September 30, 1914.

MacColl, James R.
49 Westminster St., Providence, R. I.
April 24, 1895.
{ L. September 21, 1905.

MacColl, Kenneth D.
J. & P. Coats (R. I.), Inc., P. O. Box 968, Paw-
tucket, R. I.
Ac. June 8, 1928.

MacColl, William B.
Sec.-Treas., Lorraine Mfg. Co., Pawtucket, R. I.
Ac. April 13, 1911.

McBee, William B.
Pres. and Treas., Blackstone Mutual Fire Insur-
ance Co., P. O. Box 1525, Providence, R. I.
As. August 1, 1923.

McBee, William R. L.
The Gardiner Hall, Jr., Co., S. Willington, Conn.
Ac. April 24, 1923.

McCaughhey, Edward J.
51 Arlington St., Pawtucket, R. I.
Ac. April 26, 1906.

McCausland, Ralph E.
Barber-Colman Co., Rockford, Ill.
As. April 12, 1911.

McClellan, John
Asst. Treas., New England Southern Corp., 89
Broad St., Boston, Mass.
Ac. November 21, 1927.

McConnell, Robert J.
Supt., The Naumkeag Steam Cotton Co., Salem,
Mass.
Ac. October 25, 1928.

McCradden, James F.
Aberfoyle Manufacturing Company, 123 S.
Broad St., Philadelphia, Pa.
Ac. April 6, 1925.

McDevitt, Francis O., Jr.
Treas., Potomaka Mills Corp., New Bedford,
Mass.
S.R. November 21, 1918.

McDevitt, Fred H.
Agent, Soule Mill, New Bedford, Mass.
Ac. August 19, 1930.

McDuffie, Charles D.
52 Chauncy St., Boston, Mass.
Ac. October 5, 1923.

McDuffie, Frederic C.
141 Milk St., Boston, Mass.
Ac. October 25, 1882.

McElvie, John G.
320 Broadway, New York City.
Ac. June 14, 1926.

McFadden, George H., & Bro.
Theodore Frothingham, Jr., 211 Congress St.,
Boston, Mass.
As. Sus. October 29, 1918.

McFadden, J. Franklin
McFadden, Sands & Co., 115 Chestnut St.,
Philadelphia, Pa.
As. September 13, 1906.

McGowan, Frank R.
1650 Harvard St., N. W., Washington, D. C.
Ac. October 5, 1922.

McGregor, John A.
Pres., Utica Steam & Mohawk Valley Cotton
Mills, Utica, N. Y.
Ac. April 28, 1910.

McHenry, Sidney C.
8 Prospect St., Ware, Mass.
Ac. June 14, 1926.

McIntire, Ally B.
Pepperell Mfg. Company, 160 State St., Boston,
Mass.
Ac. October 25, 1928.

McIntyre, Joseph B.
166 President Ave., Providence, R. I.
Ac. September 11, 1912.

McKinley, William
W. H. Langley & Co., 320 Broadway, New York
City.
As. April 29, 1915.

McLoughlin, John E.
Pres., McLoughlin Textile Corp., Utica, N. Y.
Ac. April 25, 1907.

McLoughlin, R. P.
Treas., McLoughlin Textile Corp., Utica, N. Y.
Ac. September 13, 1906.

McNab, Allan
Pres., New England Southern Corp., 89 Broad St., Boston, Mass.
Ac. September 11, 1912.

Macintyre, A. Fergusson
Gen. Mgr., Fitzgerald Cotton Mills, Fitzgerald, Ga.
Ac. June 15, 1923.

Mackintosh, Charles E.
Pres. and Treas., D. Mackintosh & Sons Co., Holyoke, Mass.
S.R. August 1, 1923.

Mackintosh, D., & Sons Co.
Charles E. Mackintosh, Pres. and Treas., Holyoke, Mass.
Sus. August 1, 1923.

Macy, Andrew W.
Supt., Nashawena Mills, New Bedford, Mass.
Ac. April 6, 1928.

Macy, Frederick B.
Frederick B. Macy & Co., 222 Union St., New Bedford, Mass.
Ac. April 25, 1901.

Madden, Francis P.
N. E. Sales Agent, Turner Halsey Co., Boston, Mass.
As. October 31, 1930.

Maddox, Amos G.
1602 Oneida St., Utica, N. Y.
Ac. October 18, 1900.

Maguire, John P.
Pres., Textile Banking Co., Inc., 50 Union Sq., New York City.
A.S.R. October 27, 1927.

Main, Charles T.
Mill Engineer, 201 Devonshire St., Boston, Mass.
Ac. October 28, 1885.

Mains, Robert
66 Leonard St., New York City.
Ac. September 16, 1916.

Makepeace, Charles S.
Charles R. Makepeace & Co., P. O. Box 1146, Providence, R. I.
Ac. February 8, 1921.

Malone, Arnold T.
Joseph Noone's Sons Co., 105 Washington St., Boston, Mass.
Ac. October 14, 1926.

Manley, John Warren
Pres., Sayles Finishing Plants, Inc., Saylesville, R. I.
Ac. April 30, 1909.

Manson, Ernest T.
Edward H. Best & Co., 222 Purchase St., Boston, Mass.
As. October 2, 1913.

Manville Jenckes Co.
Frederick L. Jenckes, Treas., Pawtucket, R. I.
Sus. March 18, 1918.

Marble, Edwin H.
Pres., Curtis & Marble Machine Co., Worcester, Mass.
A.S.R. April 8, 1919.

Marble, George Edwin
Curtis & Marble Machine Co., 72 Cambridge St., Worcester, Mass.
As. May 1, 1924.

Marston, John P.
247 Atlantic Ave., Boston, Mass.
{ April 28, 1904.
{ L. April 25, 1907.

Martin, Edward L.
Vice-Pres., H. & B. American Machine Co., P. O. Box 678, Pawtucket, R. I.
As. April 25, 1907.

Marvin, Charles R.
Utica Willowvale Bleaching Co., 320 Broadway, New York City.
Ac. October 2, 1913.

Mason, Frederic R.
2740 Park Ave., San Diego, California.
Ac. September 21, 1905.

Massasoit Mfg. Co.
John Foley, Asst. Treas., Fall River, Mass.
Sus. June 20, 1918.

Mauran, Frank, Jr.
Crompton Co., West Warwick, R. I.
Ac. January 17, 1927.

Mayor, John W.
Thomas Mayor & Son, 26 Olney St., Providence, R. I.
As. September 30, 1908.

Mead, Chas. E.
Pacific Mills, 79 Chauncy St., Boston, Mass.
Ac. July 15, 1924.

Meehan, George V.
Asst. Treas., Grosvenor-Dale Co., P. O. Box 1384 Providence, R. I.
Ac. April 16, 1926.

Mellor, Leonard H.
Putnam Spinners, Inc., Putnam, Conn.
Ac. August 3, 1921.

Merrill, Gilbert R.
Lowell Textile Institute, Lowell, Mass.
{ March 4, 1927.
{ L. April 6, 1928.

Merrimack Mfg. Co.
Ward Thoron, Treas., 53 State St., Boston, Mass.
Sus. May 10, 1917.

Merriman, Chas. H., Jr.
Manville Co., Providence, R. I.
Ac. April 24, 1895.

Metz, Herman A.
Pres., H. A. Metz & Co., 122 Hudson St., New York City.
Ac. April 29, 1915.

Middlesex Bleach, Dye & Print Works
George L. Gilmore, Somerville, Mass.
Sus. June 4, 1917.

Midgley, Herbert
Pres. and Gen. Mgr., Howard Bros. Mfg. Co., Worcester, Mass.
A.S.R. January 22, 1918.

Miedendorp, Henry, Jr.
16 Lee Ave., Glen Rock, N. J.
Ac. June 27, 1930.

Millar, J. R.
Gen. Mgr., California Cotton Mills Co., Oakland, Calif.
Ac. October 29, 1918.

Milliken, Joseph K.
Treas., Mount Hope Finishing Co., North Dighton, Mass.
Ac. September 23, 1909.

Mills, Charles F.
First National Bank of Boston, 67 Milk St., Boston, Mass.
A.S.R. October 27, 1927.

Minnick, John F.
Webster, Mass.
Ac. September 16, 1916.

Minot, Hooper & Co.
Thomas W. Slocum, 11 Thomas St., New York City.
As. Sus. January 1, 1919.

Mitchell, John R.
Pres., Mitchell-Bissell Co., Brunswick & Hill Ave., Trenton, N. J.
{ October 18, 1900.
{ L. April 27, 1905.

Mitchell, Nathaniel M.
Barnes Textile Service, 101 Milk St., Boston, Mass.
 { March 2, 1922.
 { L. March 2, 1922.

Mitchell, William A.
Treas., Houston Textile Mills, Houston, Texas.
 Ac. April 25, 1907.

Moller, Kenneth
263 Summer St., Boston, Mass.
 Ac. April 29, 1915.

Montgomery, George M.
Pres., The Montgomery Co., Windsor Locks, Conn.
 Ac. September 22, 1904.

Montgomery, J. R., 2nd
The Montgomery Co., Windsor Locks, Conn.
 Ac. January 10, 1930.

Montgomery Co., The
John R. Montgomery, 2nd, Windsor Locks, Conn.
 Sus. July 17, 1917.

Moody, Chas. P.
Supt. Fisher Mfg. Co., Fisherville, Mass.
 Ac. January 30, 1925.

Moore, W. F.
Geo. E. Damon & Co., 7 Pemberton Sq., Boston, Mass.
 { March 2, 1922.
 { L. March 2, 1922.

Morris, Edward N.
40 Worth Street, New York City.
 Ac. May 3, 1918.

Morrissey, J. F.
Supt., Interlaken Mills, Harris, West Warwick, R. I.
 Ac. May 1, 1925.

Morton, Albert H.
95 Harvard St., Lowell, Mass.
 Ac. October 28, 1891.

Morton, Charles
32 Garden St., Pawtucket, R. I.
 Ac. May 3, 1918.

Moss, John W.
Supt., Bourne Mills, Fall River, Mass.
 Ac. December 6, 1926.

Mowry, Charles D.
Rhode Island Plush Mills, Woonsocket, R. I.
 Ac. Mar. 22, 1929.

Mowry, Earl E.
J. & P. Coats (R. I.), Inc., Pawtucket, R. I.
 Ac. June 8, 1928.

Mowry, Harold
Mgr., Sterling Branch, U. S. Finishing Co., Sterling, Conn.
 Ac. April 27, 1905.

Mowry, Leon W.
Sec. and Asst. Treas., Rhode Island Plush Mills, Woonsocket, R. I.
 Ac. March 22, 1929.

Mulligan, Robert
Treas., J. W. Starkweather Co., 705 Hospital Trust Bldg., Providence, R. I.
 Ac. May 13, 1927.

Mumford, Charles M.
263 Summer St., Boston, Mass.
 Ac. April 26, 1928.

Munro, James
Cooper & Brush, 53 State St., Boston, Mass.
 Ac. October 5, 1920.

Murphy, Wilfred C.
Pres. and Treas., Providence Mill Supply Co., 68 West Exchange St., Providence, R. I.
 Ac. March 2, 1923.

Murray, Joseph D.
Asst. Treas., Holmes Mfg. Co., New Bedford, Mass.
 Ac. April 16, 1926.

Murti, E. N.
Tanuku, West Godarari Dist., Pres'y Madras, India.
 { April 25, 1912.
 { L. April 23, 1912.

Nashawena Mills
William B. Gardner, Treas., New Bedford, Mass.
 Sus. May 1, 1930.

Nashua Mfg. Co.
Robert Amory, Treas., 48 Franklin St., Boston, Mass.
 Sus. August 11, 1917.

National Aniline & Chemical Co.
Guy W. Talbert, Vice-Pres., 40 Rector St., New York City.
 As. Sus. January 17, 1918.

Naumkeag Steam Cotton Co.
Ernest N. Hood, Treas., Salem, Mass.
 Sus. August 2, 1917.

Neild, Eli
Asst. Supt., Nashawena Mills, New Bedford Mass.
 Ac. June 14, 1926.

Neild, Frank I.
Pres., Neild Mfg. Corp., New Bedford, Mass.
 Ac. May 3, 1918.

Neild Manufacturing Corporation
Frank L. Neild, New Bedford, Mass.
 Sus. September 13, 1929.

Nelson, Nils V.
N. V. Nelson & Co., 93 Federal St., Boston, Mass.
 As. October 14, 1926.

New Bedford Cotton Mills
Hon. William M. Butler, Pres., 77 Franklin St., Boston, Mass.
 Sus. April 1, 1931.

Newell, A. W.
Vice-Pres., Hazard Cotton Co., P. O. Box 1394, Providence, R. I.
 As. May 5, 1919.

Newell, Charles H.
321 Howard Bldg., Providence, R. I.
 Ac. December 1, 1921.

Newell, Perry S.
Sec., Assn. of Cotton Textile Merchants of N. Y., 40 Worth St., New York City.
 As. October 31, 1929.

Newmarket Mfg. Co.
Charles Walcott, Treas., 87 Milk St., Boston, Mass.
 Sus. December 16, 1918.

Newport Chemical Works, Inc.
Elvin H. Killheffer, Vice-Pres., Passaic, N. J.
 As. Sus. November 10, 1919.

Newton, Henry Arthur
Supt., Pacific Mills, Cochecho Dept., Dover, N. H.
 Ac. April 24, 1923.

Newton, Jewett B.
Asst. Treas., Cotton Mills of N. E. Industries, 9 Green St., Augusta, Me.
 Ac. March 4, 1927.

Newton, J. Edward
Treas., Barnard Mfg. Co., Fall River, Mass.
 Ac. September 16, 1916.

New York Mills Corp.
A. F. Hobbs, Pres., New York Mills, N. Y.
 Sus. February 10, 1920.

Nichols, Charles B.
Treas., Otis Company, Three Rivers, Mass.
 Ac. October 14, 1925.

Nichols, George
Minot, Hooper & Co., 11 Thomas St., New York City.
 Ac. September 11, 1916.

Nichols, George
Treas., Dwight Mfg. Co., Chicopee, Mass.
 S.R. December 5, 1918.

Nichols, Henry G.
Pres., Otis Company, 342 Madison Ave., New York City.
Ac. June 1, 1923.

Nichols, Henry W.
Principal, Bradford Durfee Textile School, Durfee and Banks Sts., Fall River, Mass.
Ac. October 20, 1917.

Nichols, Rodman A.
Nichols & Read, 12 Pearl St., Boston, Mass.
As. May 3, 1918.

Nivling, W. A.
Huron Milling Co., 73 Tremont St., Boston, Mass.
As. May 4, 1920.

Nonquitt Mills
P. Leroy Lamb, Treas., New Bedford, Mass.
Sus. April 1, 1931.

Noone, Albert W.
Joseph Noone's Sons Co., Peterboro, N. H.
Ac. September 26, 1901.

Norton, William A.
The Montreal Cottons, Ltd., Valleyfield, Que.
Ac. October 27, 1927.

Nyanza Mills
Nathaniel F. Ayer, Treas., 77 Franklin St., Boston, Mass.
Sus. January 14, 1919.

Odenheimer, S.
Pres., Lane Cotton Mills Co., New Orleans, La.
Ac. October 25, 1893.

O'Connor, F. W.
J. M. Prendergast & Co., 140 Federal St., Boston, Mass.
A.S.R. October 31, 1929.

O'Donnell, J. Joseph
J. Joseph O'Donnell Co., 12 Pearl St., Boston, Mass.
As. April 15, 1927.

O'Leary, Arthur L.
Treas., Lambeth Rope Corp., P. O. Box 760, New Bedford, Mass.
As. April 16, 1926.

O'Malley, Charles J.
Pres., O'Malley Advertising & Selling Co., 244 Washington St., Boston, Mass.
April 24, 1913.
{ L. September 7, 1913.

Osborne, G. Gordon
North Carolina State College, Textile Dept., Raleigh, N. C.
Jr. Tech. October 27, 1927.

Oswald, John G.
Gen. Mgr., Nyanza Mills, Woonsocket, R. I.
Ac. June 1, 1923.

Otis Company
Henry G. Nichols, Pres., 342 Madison Ave., New York City.
Sus. November 12, 1917.

Otto, Hans
c/o Heinrich Otto, Heichenbach, a.d. Fils Württemberg, Germany.
Ac. October 3, 1924.

Owen, Charles D.
Treas., Beacon Mfg. Co., New Bedford, Mass.
S.R. November 7, 1917.

Owen, Harry C.
Vice-Pres., Industrial Trust Co., Providence, R. I.
As. May 1, 1925.

Pacific Mills
Alfred E. Colby, Treas., 140 Federal St., Boston, Mass.
Sus. May 18, 1917.

Paige, Walter H.
Gen. Mgr., York Mfg. Co., Saco, Me.
Ac. November 23, 1925.

Paine, Sidney B.¹
59 Hancock St., Auburndale, Mass.
Hon. April 16, 1926.

Paine, Sidney L.
8 Cliff St., Winchester, Mass.
Tech. April 15, 1927.

Paine, Sidney S.
Pres., The Textile Development Co., 80 Federal St., Boston, Mass.
{ April 27, 1916.
{ L. August 2, 1929.

Paine, Walter R.
Barrington Associates, Springfield, Mass.
As. May 3, 1929.

Palmer, Townsend
Sec.-Treas., The I. E. Palmer Co., Middletown, Conn.
Ac. April 30, 1909.

Park, Clifton D.
Carrier Engineering Corp., 1011 Statler Bldg., Boston, Mass.
As. October 25, 1928.

Parker, J. Earle
Treas., Acadia Mills, 78 Chauncy St., Boston, Mass.
Ac. February 2, 1923.

Parker, Wilder & Co.
Wm. D. Judson, 78 Leonard St., New York City.
As. Sus. November 23, 1918.

Parker, Winthrop
597 Chestnut St., Manchester, N. H.
Ac. September 30, 1908.

Parks-Cramer Co.
R. S. Parks, Treas., Fitchburg, Mass.
As. Sus. May 11, 1917.

Parks, R. S.
Parks-Cramer Co., Fitchburg, Mass.
A.S.R. May 11, 1917.

Parsons, Brackett
Treas., Lewiston Bleachery & Dye Works, 160 State St., Boston, Mass.
Ac. April 24, 1923.

Parsons, Winslow A.
Treas., Richmond Lace Works, 99 Chauncy St., Boston, Mass.
Ac. May 3, 1918.

Patterson, John L.
P. O. Box 1481, Richmond, Va.
Ac. April 13, 1911.

Payson & Smith, Inc.
D. Allen Smith, Treas., 45 Franklin St., Boston Mass.
As. Sus. June 15, 1931.

Payson, C. C.
Payson & Smith, Inc., 45 Franklin St., Boston Mass.
As. September 30, 1914.

Peabody, W. Rodman
Treas., Suncook Mills, 70 State St., Boston, Mass.
S.R. August 1, 1923.

Pearson, John A.
The Esmond Mills, 21 East 26th St., New York City.
Ac. April 30, 1914.

Pease, Chester C.
Agent, Otis Company, Columbian Mills, Greenville, N. H.
Ac. February 10, 1928.

Pelzer Mfg. Co.
John McClellan, Asst. Treas., 89 Broad St., Boston, Mass.
Sus. April 1, 1931.

Pemaquid Mills
Eugene H. Timanus, Treas., 115 Coggeshall St., New Bedford, Mass.
Sus. October 31, 1929.

¹Member of the Association since April 24, 1895.

Pennock, Gilbert V.
Eustis, Pennock & Co., 118 Old Colony Ave.,
Wollaston, Mass.
As. September 11, 1915.

Pepler, Herbert H.
Agent, Powderell & Alexander, Inc., Danielson,
Conn.
Ac. June 5, 1925.

Pepperell Mfg. Co.
Russell H. Leonard, Treas., 160 State St., Boston,
Mass.
Sus. December 17, 1917.

Pepperell, William S.
125 Congdon St., Providence, R. I.
Ac. March 2, 1922.

Perkins, Ralph C.
23 Pleasant St., So. Dartmouth, Mass.
Ac. April 28, 1910.

Perkins, Ralph C.
Treas., Perkins, Strongman Corp., Church St.,
Putnam, Conn.
S.R. September 13, 1929.

Perkins, Strongman Corporation
Ralph C. Perkins, Treas., Church St., Putnam,
Conn.
Sus. September 13, 1929.

Perry, Joseph L.
Supt., Suncook Mills, Suncook, N. H.
Ac. April 6, 1928.

Peterson, H. A.
Office Mgr., Stephen M. Weld & Co., 65 Franklin
St., Boston, Mass.
A.S.R. June 15, 1931.

Peugnet, Ramsay
See, U. S. Testing Co., Inc., 468 Fourth Ave.,
New York City.
Ac. April 17, 1908.

Phillips, William D.
Supt., Naumkeag Steam Cotton Co., 347 La-
fayette St., Salem, Mass.
Ac. April 30, 1914.

Phinney, Morris
American Glanzstoff Corp., Providence, R. I.
As. October 25, 1928.

Pierce, Albert R.
Supt., Pierce Mfg. Corp., New Bedford, Mass.
Ac. October 5, 1899.

Pierce, Andrew G., Jr.
Treas., Pierce Mfg. Corp., P. O. Box 733, New
Bedford, Mass.
Ac. April 23, 1895.

Pierce Mfg. Corp.
Andrew G. Pierce, Jr., Treas., New Bedford, Mass.
Sus. December 3, 1917.

Piggott, E. B. G.
Asst. Treas., Wawayset Mfg. Co., Pawtucket,
R. I.
(L) February 28, 1930.
(L) May 1, 1930.

Pilgrim Mills
Arthur C. Homer, Treas., Fall River, Mass.
Sus. July 17, 1917.

Pinckney, Henry R.
Supt., Lincoln Bleachery & Dye Works, Lonsdale,
R. I.
Ac. June 14, 1926.

Pingree, A. E.
Supt., Ponemah Mills, Taftville, Conn.
Ac. April 4, 1924.

Pond Lily Co., The
1475 Whalley Ave., New Haven, Conn.
Sus. August 21, 1917.

Ponemah Mills
J. Arthur Atwood, Treas., Taftville, Conn.
Sus. March 18, 1918.

Porteous, John
Pres., The Lawton Mills Corp., Plainfield, Conn.
Ac. May 3, 1918.

Potomksa Mills Corp.
Francis O. McDevitt, Jr., Treas., New Bedford,
Mass.
Sus. November 21, 1918.

Potter, Carl H.
Treas., Globe Yarn Mills, Inc., Mt. Holly, N. C.
Ac. November 5, 1918.

Potter, Charles H.
Gen. Supt., The Montreal Cottons, Ltd., Valley-
field, Quebec, Canada.
Ac. April 25, 1901.

Pratt, Edward S.
Vice-Pres., Samson Cordage Works, 88 Broad St.,
Boston, Mass.
Ac. April 26, 1917.

Prendergast, J. M. & Co.
F. W. O'Connor, 140 Federal St., Boston, Mass.
Chas. A. Falvey, 140 Federal St., Boston, Mass.
As. Sus. October 31, 1929.

Prest, George E.
Agent, Suncook Mills, Suncook, N. H.
Ac. April 24, 1902.

Priestley, W. T.
H. Hentz & Co., 60 Beaver St., New York City.
A.S.R. April 26, 1928.

Pritchett, Henry Smith, LL.D.
The Carnegie Foundation, 522 Fifth Ave., New
York City.
Hon. September 26, 1901.

Prosser, Isaac T.
Mgr., Chicopee Mfg. Corp., Chicopee Falls,
Mass.
Ac. April 25, 1912.

Puckett, Henry B.
Asst. Treas., Goodyear Cotton Mills, Inc.,
Goodyear, Conn.
Ac. October 14, 1926.

Queen City Cotton Co.
Andrew McLean Young, Treas., Burlington, Vt.
Sus. April 24, 1918.

Quinebaug Co., The
J. Arthur Atwood, Treas., Danielson, Conn.
Sus. July 20, 1918.

Quinn, Frederick J.
100 Centre St., Brookline, Mass.
Ac. April 26, 1906.

Quinn, Patrick H.
Treas., Warwick Lace Works, Riverpoint, R. I.
Ac. May 3, 1918.

Quinton, W. W.
Manville Jenckes Co., Pawtucket, R. I.
Ac. July 15, 1923.

Quissett Mill
Hon. William M. Butler, Pres., 77 Franklin St.,
Boston, Mass.
Sus. April 1, 1931.

Rae, Benjamin G.
Treas., Futurity Thread Mfg. Co., 80 Bridge St.,
Newton, Mass.
Ac. April 29, 1915.

Raeburn, Andrew
Sec., New Bedford Cotton Mfrs. Assn., Masonic
Bldg., New Bedford, Mass.
Ac. April 24, 1923.

Ramsdell, Theodore E.
Agent, Monument Mills, Housatonic, Mass.
Ac. April 23, 1903.

Rawlinson, W. W.
Suffolk Mills of Nashua Mfg. Co., Lowell, Mass.
Ac. September 13, 1929.

Raymond, Charles P.
Charles P. Raymond Textile Service, Inc., 294
Washington St., Boston, Mass.
As. April 29, 1915.

Reaber, Karl, Jr.
R. F. D. No. 1, Apponaug, R. I.
Jr. Tech. January 17, 1927.

Reardon, John F.
Agent, Grosvenor-Dale Co., No. Grosvenor-Dale, Conn.
Ac. September 8, 1922.

Redman, H. Stewart
Ariquabano Co., Hoyo Colorado, Cuba.
Ac. April 27, 1916.

Rennie, T. H.
Vice-Pres., Avondale Mill, Pell City, Ala.
Ac. October 18, 1900.

Reoch, Robert A. S.
Gen. Supt., Pacific Mills, Print Works Dept., Lawrence, Mass.
Ac. September 17, 1910.

Reynolds, Arthur W.
5 Orchard St., Andover, Mass.
Ac. June 14, 1926.

Reynolds, Frank W.
Vice-Pres., Lockwood Greene, Engineers, Inc., 24 Federal St., Boston, Mass.
As. September 27, 1917.

Reynolds, Frederic W.
25 Walnut St., Stoughton, Mass.
Ac. April 26, 1900.

Reynolds, Harrison G.
Pepperell Mfg. Company, 160 State St., Boston, Mass.
Ac. April 6, 1928.

Richardson, Charles O.
Warwick Mills, 201 Devonshire St., Boston, Mass.
Ac. April 25, 1912.

Richardson, E. R.
Treas., H. & B American Machine Co., P. O. Box 678, Pawtucket, R. I.
Ac. April 13, 1911.

Richardson, Harry
27 Broad St., Danielson, Conn.
Ac. November 3, 1921.

Richmond, Lawrence
Asst. Treas., Crompton Company, Arctic, R. I.
Ac. January 30, 1925.

Ricketson, Frank B.
Agent, Ponemah Mills, Taftville, Conn.
Ac. April 13, 1911.

Riley, Charles E.
Pres., H & B American Machine Co., 161 Devonshire St., Boston, Mass.
Ac. April 25, 1888.

Rimmer, Joseph W.
H. & B. American Machine Co., Pawtucket, R. I.
As. October 25, 1928.

Ritter, William H.
Asst. Sec., Chicopee Mfg. Corp., 266 George St., New Brunswick, N. J.
{ May 3, 1918.
(L. June 15, 1918.

Robbins, Charles H.
141 Summer St., New Bedford, Mass.
Ac. May 3, 1918.

Robertson, Edgar A.
The Montreal Cottons, Ltd., Montreal, Canada.
Ac. March 22, 1929.

Robertson, George W.
Gen. Supt., Riverside & Dan River Cotton Mills, Inc., Danville, Va.
Ac. April 26, 1906.

Robertson, William H.
Treas., The Robertson Bleachery & Dye Works, Inc., New Milford, Conn.
Ac. September 16, 1916.

Robinson, C. M.
Agent, The Wauregan Co., Wauregan, Conn.
Ac. June 29, 1920.

Rockwood, George I.
Rockwood Sprinkler Co., 38-56 Harlow St., Worcester, Mass.
{ April 25, 1901.
(L. April 25, 1901.

Rodman, Lee
Pres. and Treas., Indiana Cotton Mills, Cannelton, Ind.
Ac. September 17, 1910.

Rose, Harry
Pacific Mills, Lawrence, Mass.
Ac. April 6, 1928.

Rousmaniere, John E.
150 Madison Ave., New York City.
Ac. April 13, 1911.

Rowe, F. E., Jr.
Saco-Lowell Shops, 147 Milk St., Boston, Mass.
As. April 24, 1923.

Rudloff, John A.
Whitman Mills, New Bedford, Mass.
Ac. June 5, 1925.

Russell, Howard I.
Russell Mfg. Co., Manchester, N. H.
Ac. April 13, 1911.

Saco-Lowell Shops
D. F. Edwards, Pres., 147 Milk St., Boston, Mass.
As. Sus. May 18, 1917.

Safford, Arthur Truman
66 Broadway, Lowell, Mass.
Ac. November 12, 1919.

Sagar, Alfred
Treas., Marshaw Mills, Inc., Methuen, Mass.
Ac. April 24, 1902.

Salisbury, Everett E.
Agent, Atlantic Mills, Providence, R. I.
Ac. September 30, 1908.

Sampson, Albert E.
Calco Chemical Company, 35 Hartford St., Boston, Mass.
As. October 31, 1929.

Sanborn, W. K.
Supt., American Net & Twine Co., R. W. Lord Mill, West Kennebunk, Me.
Ac. April 25, 1907.

Sanford, Pardon B.
Supt., Chalmers Knitting Co., Amsterdam, N. Y.
Ac. October 2, 1902.

Saraiya, Anandji L.
Karsandas Nathas Bldg., Girgaon, Back Road, Bombay, India.
Tech. February 10, 1928.

Saulnier, E. T.
Supt., York Mfg. Co., Biddeford, Me.
Ac. August 10, 1927.

Sayles, Robert G.
Pres., The Baltic Mills Co., Baltic, Conn.
Ac. February 28, 1930.

Schaellibaum, Robert
11 W. Vance St., Charlotte, N. C.
{ September 22, 1904.
(L. September 22, 1904.

Schloss, Frederick H.
Pres. and Gen. Mgr., Darlington Textile Co., Pawtucket, R. I.
Ac. January 11, 1926.

Scott, David C.
Henry L. Scott & Co., P. O. Box 963, Providence, R. I.
As. May 4, 1920.

Scull, Frank R.
Dir. of Sales, Du Pont Rayon Company, 2 Park Ave., New York City.
As. August 10, 1927.

Seabury, Arthur G.
Treas., New Bedford Shuttle Co., New Bedford, Mass.
As. April 16, 1926.

Seaton, Thomas J.
Vice-Pres. and Supt., The Floyd Cranska Co.,
Moosup, Conn.
Ac. November 1, 1923.

Selley, William H.
Supt., The Lawton Mills Corp., Plainfield, Conn.
Ac. September 30, 1927.

Sergeson, Allan M.
R. Sergeson & Co., Philadelphia, Pa.
As. June 5, 1925.

Shackelford, Harry W.
Supt., Danvers Bleachery, Peabody, Mass.
Ac. April 6, 1928.

Shaw, A. F.
Pres., Greenville Finishing Co., Greenville, R. I.
S.R. June 14, 1926.

Shaw, Benjamin C.
Asst. Agent, Otis Co., Three Rivers, Mass.
Ac. October 29, 1918.

Shaw, E. A., & Co.
Henry G. Brooks, Treas., 160 State St., Boston,
Mass.
As. Sus. June 15, 1931.

Shaw, John F.
Supt., Dwight Mfg. Co., Somersworth, N. H.
Ac. April 16, 1926.

Sheldon, Arthur N.
F. P. Sheldon & Son, 1009 Hospital Trust Bldg.,
Providence, R. I.
As. September 13, 1906.

Shockley, U. Morris
Vice-Pres., B. B. & R. Knight Corp., 40 Worth
St., New York City.
Ac. August 10, 1927.

Shove, W. Frank
Shove Cotton Company, 88 Pleasant St., Fall
River, Mass.
Ac. September 22, 1904.

Simonds, Henry G.
Asst. Treas., Pacific Mills, 140 Federal St., Boston,
Mass.
Ac. April 16, 1926.

Simonds, Nathaniel G.¹
5 Pickman St., Salem, Mass.
Hon. October 25, 1928.

Skedgell, John A.
Joseph Bancroft & Sons Co. of Pa., Reading, Pa.
Ac. March 22, 1929.

Skinner, John
Treas., Harmony Mills, Cohoes, N. Y.
Ac. April 26, 1906.

Slocum, Charles P.
Corn Products Refining Co., 47 Farnsworth St.,
Boston, Mass.
A.S.R. March 2, 1918.

Slocum, Thomas W.
Minot, Hooper & Co., 11 Thomas St., New York
City.
A.S.R. January 1, 1919.

Smith, D. Allen
Treas., Payson & Smith, Inc., 45 Franklin St.,
Boston, Mass.
A.S.R. June 15, 1931.

Smith, Frederick K.
The Spool Cotton Co., 31 Beach St., Boston,
Mass.
Ac. April 24, 1923.

Smith, Henry Kay
500 East 6th St., Jamestown, N. Y.
October 4, 1907.
{L. January 17, 1927.

Smith, J. Foster
Agent, Naumkeag Steam Cotton Co., Salem, Mass.
Ac. May 3, 1918.

Smith, Thomas Henry
500 East 6th St., Jamestown, N. Y.
Ac. April 30, 1884.

Smith, William
Prin., New Bedford Textile School, New Bedford
Mass.
Ac. May 3, 1921.

Smith, William C.
2809 Connecticut Ave., Washington, D. C.
Ac. January 25, 1929.

Smyth, Ellison A.
Balfour, N. C.
Ac. April 13, 1911.

Snowden, John W.
The Stead & Miller Co., Philadelphia, Pa.
Ac. May 3, 1929.

Sommaripa, Alexis
Du Pont Rayon Co., 2 Park Ave., New York
City.
Ac. July 30, 1926.

Southworth, Irving
Agent, Pacific Mills, Lawrence, Mass.
Ac. April 13, 1911.

Sparrell, W. Rogerson
Gen. Partner, Thayer, Dearing & Co., 63 Franklin
St., Boston, Mass.
A.S.R. June 15, 1931.

Spence, Henry C.
Indian Orchard, Mass.
As. April 24, 1895.

Spencer, Antonio
Pres., U. S. Ring Traveler Co., 17 Exchange St.,
Providence, R. I.
Ac. May 3, 1918.

Spofford, George E.
Treas., Hill Mfg. Co., Augusta, Me.
Ac. April 29, 1896.

Stafford Co., The
George P. Erhard, Pres., Readville, Mass.
As. Sus. April 1, 1918.

Stanton, J. E., Jr.
Treas., Hathaway Mfg. Co., New Bedford, Mass.
S.R. November 21, 1918.

Stanton, Seabury
Asst. Treas., Hathaway Mfg. Co., New Bedford,
Mass.
Ac. October 11, 1930.

Staples, Willard F.
Treas., Lawton Mills Corp., 77 Franklin St.,
Boston, Mass.
Ac. April 16, 1926.

Stearns, George R.
Pres., Riverside Mills, Augusta, Ga.
Ac. April 30, 1890.

Stearns, Walter H.
P. O. Box 1192, Providence, R. I.
Ac. May 5, 1922.

Steele, Fred W.
Wainsutta Club, New Bedford, Mass.
Ac. September 11, 1912.

Steere, Robert E.
84 Olive St., Pawtucket, R. I.
Ac. July 10, 1925.

Steere, Samuel A.
Mgr., Cotton & Fabric Div., The Goodyear Tire
& Rubber Co., Akron, Ohio.
Ac. October 5, 1920.

Stevens, Dexter
Vice-Pres., Manville Jenckes Co., Pawtucket,
R. I.
Ac. April 25, 1907.

Stevens Linen Works
William T. Dowling, Treas., 78 Chauncy St.,
Boston, Mass.
Sus. April 1, 1931.

Stewart, Samuel
Agent, Bates Mfg. Co., Lewiston, Me.
Ac. April 23, 1903.

¹ Member of the Association since April 27, 1898.

Stimpson, Wallace I.
Agent, Draper Corp., Hopedale, Mass.
As. September 21, 1905.

Stoddard, Wallace E.
27 Harvard Court, White Plains, N. Y.
Ac. June 29, 1920.

Stokes, Edward C.
P. O. Box 131, Trenton, N. J.
Hon. September 21, 1905.

Stone, Malcolm B.
Treas., Ludlow Mfg. Associates, 80 Federal St., Boston, Mass.
Ac. April 25, 1912.

Storror, Charles, & Co.
Edward C. Storror, 602 Exchange Bldg., Boston, Mass.
As. Sus. March 6, 1925.

Storror, E. C.
Charles Storror & Co., 602 Exchange Bldg., Boston, Mass.
A.S.R. March 6, 1925.

Strang, James
Saco-Lowell Shops, 147 Milk St., Boston, Mass.
As. October 28, 1897.

Straw, William Parker
Wellington, Sears & Co., 65 Worth St., New York City.
Ac. October 4, 1907.

Sturtevant, Harold B.
P. O. Box 295, Apponaug, R. I.
Ac. October 3, 1924.

Sudanette Company, Inc.
Wm. M. Hobbs, Pres., New Bedford, Mass.
Sus. October 31, 1929.

Sullivan, John
Agent, Taber Mill, New Bedford, Mass.
Ac. April 27, 1899.

Summersby, George
Treas., Boston Mfg. Co., 48 Franklin St., Boston, Mass.
Ac. September 21, 1925.

Summersby, William C.
Agent, Hill Mfg. Co., Lewiston, Me.
Ac. July 31, 1928.

Suncook Mills
W. Rodman Peabody, Treas., 70 State St., Boston, Mass.
Sus. August 1, 1923.

Sweet, Charles A.
Wellington, Sears & Co., 65 Worth St., New York City.
Ac. September 21, 1925.

Swift, Arthur Clinton
Wellington Sears Co., 65 Worth St., New York City.
Ac. April 6, 1923.

Swift, E. Kent
Treas., Whitin Machine Works, Whitinsville, Mass.
A.S.R. November 1, 1918.

Swope, Gerard
Pres., General Electric Co., 120 Broadway, New York City.
A.S.R. May 24, 1917.

Taber Mill
John Sullivan, Agent, New Bedford, Mass.
Sus. May 17, 1917.

Takatsuji, Narazo
Karasumaru-dori Imadegawaagaru, Kyoto, Japan.
Ac. April 17, 1908.

Talbert, Guy W.
Vice-Pres., National Aniline & Chemical Co., 40 Rector St., New York City.
A.S.R. January 17, 1918.

Tang, Hsiung-Yuan
Sung Sing Cotton Mills, Wusih, Kiangsu, China.
Jr. Tech. October 31, 1929.

Taylor, Aldrich
Ray D. Lillibridge, Inc., 8 West 40th St., New York City.
Ac. April 26, 1928.

Taylor, Daniel L.
Traffic Mgr., Pacific Mills, 140 Federal St., Boston, Mass.
Ac. June 2, 1922.

Taylor, James W.
Agent, Fuld & Hatch Knitting Co., P. O. Box 86, Cohoes, N. Y.
Ac. October 26, 1892.

Taylor, Samuel
Supt., Bristol Mfg. Co., New Bedford, Mass.
Ac. October 1, 1903.

Tenney, Ashton M.
171 Madison Ave., New York City.
Ac. December 21, 1928.

Tenney, George A.
Treas., Monadnock Mills, Claremont, N. H.
Ac. September 29, 1911.

Textile Banking Co., Inc.
John P. Maguire, Pres., 35 Madison Ave., New York City.
As. Sus. October 27, 1927.

Textile Development Co., The
Sidney S. Paine, Pres., 80 Federal St., Boston, Mass.
As. Sus. May 1, 1925.

Textile-Finishing Machinery Co., The
Ethelbert A. Rusden, 83 Exchange Place, Providence, R. I.
As. Sus. October 31, 1929.

Thayer, Dearing & Co.
W. Rogerson Sparrell, Gen. Partner, 63 Franklin St., Boston, Mass.
As. Sus. June 15, 1931.

Thayer, Gay D.
46 Elm St., Worcester, Mass.
As. April 25, 1907.

Thayer, Nathaniel N.
Barry, Thayer & Co., 30 Kilby St., Boston, Mass.
As. April 13, 1911.

Thoma, M. Frederick
Fitchburg Yarn Co., Fitchburg, Mass.
Ac. January 17, 1927.

Thomas, Norman T.
Naumkeag Steam Cotton Co., Salem, Mass.
Ac. October 16, 1919.

Thompson, Albert W.
Parks-Cramer Co., 1102 Old South Bldg., Boston, Mass.
Ac. April 30, 1909.

Thompson, Gilbert T.
Pres., Berkshire Fine Spinning Associates, Inc., 40 Worth St., New York City.
Ac. April 30, 1914.

Thompson, Henry B.
Pres., U. S. Finishing Co., 40 Worth St., New York City.
Ac. May 3, 1918.

Thompson, James O., Jr.
Agent, New Bedford Cotton Mills Corp., New Bedford, Mass.
Ac. October 18, 1900.

Thompson, Philip E.
34 Stetson St., New Bedford, Mass.
Ac. February 5, 1926.

Thomson, James
40 Worth St., New York City.
Ac. April 25, 1907.

Thoron, Ward
Treas., Merrimack Mfg. Co., P. O. Box 5209, Boston, Mass.
Ac. May 4, 1920.

Tifft, Emerson B.
Supt., Harmony Mills, Cohoes, N. Y.
Ac. March 7, 1924.

Timanus, Eugene H.
Treas., Pemaquid Mills, 115 Coggeshall St., New Bedford, Mass.
S.R. October 31, 1929.

Tobin, John E.
Supt., Butler Mill, New Bedford, Mass.
Ac. June 4, 1919.

Todd, W. O.
Pres. and Treas., Pocasset Worsted Co., Inc., Thornton, R. I.
Ac. October 18, 1900.

Toole, James A.
Gen. Supt., Manville Jenckes Co., Pawtucket, R. I.
Ac. January 10, 1930.

Totokett Mfg. Co.
Calvin H. Fristie, Pres., Norwich, Conn.
Sus. July 20, 1918.

Tourtellot, Carl T.
Agent, Renfrew Mfg. Co., Adams, Mass.
Ac. October 29, 1918.

Traver, William A.
Franklin Process Co., 564 Eddy St., Providence, R. I.
A.S.R. October 31, 1929.

Tucker, Philip M.
Pres., Philip M. Tucker Co., 201 Devonshire St., Boston, Mass.
Ac. April 25, 1912.

Tunstall, Harry
12 Maple Ave., Fairhaven, Mass.
Ac. September 21, 1905.

Turner, Charles A.
Pres., Chester Lace Mills, Chester, Pa.
Ac. March 7, 1924.

Twiss, William D.
10 Buswell St., Lawrence, Mass.
Ac. April 29, 1896.

Underdown, Walter H.
Treas., New Bedford Cotton Mills Corp., New Bedford, Mass.
Ac. September 23, 1909.

Underwood, Charles S.
Hunter Mfg. & Comm. Co., 53 Worth St., New York City.
Ac. January 11, 1924.

United Piece Dye Works
Albert Blum, Treas., Lodi, N. J.
Sus. February 12, 1918.

Universal Winding Co.
Parkman D. Howe, Asst. Treas., 95 South St., Boston, Mass.
As. Sus. June 15, 1931.

Vaughan, Wanton
Vice-Pres., Machinery Liquidating Co., Inc., 33 West 42nd St., New York City.
Ac. February 5, 1926.

Veeder-Root, Inc.
John T. Chidsey, Pres., Hartford, Conn.
As. Sus. October 31, 1929.

Vermilye, William M.
930 Madison Ave., Plainfield, N. J.
Ac. October 5, 1923.

Verney, Gilbert
Asst. to Supt., Warwick Mills, West Warwick, R. I.
Ac. October 31, 1930.

Vickery, Robert G.
Cabot Mfg. Co., 77 Franklin St., Boston, Mass.
Ac. June 1, 1923.

Viens, Henry J.
Lorraine Mfg. Co., Pawtucket, R. I.
Ac. October 11, 1930.

Viscose Co., The
171 Madison Ave., New York City.
As. Sus. January 17, 1927.

Wadleigh, Jude C.
Agent, Merrimack Mfg. Co., Lowell, Mass.
Ac. October 26, 1892.

Wagg, Frederic E.
Lewiston, Me.
{ March 2, 1922.
{ L. March 2, 1922.

Walcott, Charles
Treas., Newmarket Mfg. Co., 87 Milk St., Boston, Mass.
S.R. December 16, 1918.

Walen, E. Dean
Agent, Worsted Dept., Pacific Mills, Lawrence, Mass.
Ac. May 3, 1921.

Walker, Frank A.
First National Bank Bldg., New Bedford, Mass.
As. April 16, 1926.

Walker, Thomas H.
Asst. Treas., Lorraine Mfg. Co., Pawtucket, R. I.
Ac. April 24, 1923.

Wallace, Robert S.
Lunenburg, Mass.
Ac. April 25, 1912.

Walmsley, Herbert
Treas., Excelsior Quilting Co., Long Island City, N. Y.
Ac. September 30, 1908.

Walsh, Frederick T.
82 Chestnut St., Boston, Mass.
Ac. April 28, 1897.

Walsh, James J.
S. D. Bush & Co., 153 Milk St., Boston, Mass.
As. June 1, 1923.

Wamsutta Mills
C. F. Broughton, Treas., New Bedford, Mass.
Sus. September 10, 1917.

Ward, Benjamin I.
Pres., Bellman Brook Bleachery Co., Fairview, N. J.
Ac. September 30, 1908.

Washburn, Frederick C.
Washburn, 226 North Water St., New Bedford, Mass.
As. December 6, 1926.

Waterman, Frank E.
Asst. Treas., Butler Mill, New Bedford, Mass.
Ac. January 30, 1925.

Watson, Clifton E.
Mgr., The J. H. Williams Co., Millbury, Mass.
As. February 2, 1923.

Wauregan Co., The
Danielson, Conn.
Sus. April 1, 1918.

Webster, Joseph W.
Treas., Grinnell Mfg. Corp., New Bedford, Mass.
Ac. April 28, 1910.

Webster, Robert C.
Vice-Pres., W. & J. Knox Net & Twine Co., Johnson and Barney Sts., Baltimore, Md.
Ac. June 20, 1927.

Weedon, Daniel R.
Treas., Holmes Mfg. Co., New Bedford, Mass.
S.R. September 18, 1917.

Weld, J. Linzee
Asst. Treas., Suncook Mills, 70 State St., Boston, Mass.
Ac. April 6, 1928.

Weld, Stephen M., & Co.
H. A. Peterson, Office Mgr., 65 Franklin St., Boston, Mass.
As. Sus. June 15, 1931.

Wellington, Sears & Co.
Harry L. Bailey, 93 Franklin St., Boston, Mass.
As. Sus. November 13, 1924.

Wentworth, Philip C.
Treas., National Ring Traveler Co., 257 West Exchange St., Providence, R. I.
As. May 3, 1921.

West, Alexander S.
U. S. Gutta Percha Paint Co., 12 Dudley St., Providence, R. I.
(April 17, 1908.
(L. April 17, 1915.

West, Robert
Treas., Riverside & Dan River Cotton Mills, Inc., Danville, Va.
Ac. October 25, 1928.

West, William R.
1886 Purchase St., New Bedford, Mass.
Ac. September 22, 1896.

Weston, Melville
Asst. Treas., Newmarket Mfg. Co., 87 Milk St., Boston, Mass.
S.R. April 1, 1931.

Whidden, William B.
Sales Repres., Celanese Corp. of America, 180 Madison Ave., New York City.
As. November 23, 1925.

Whipple, Walter
Agent, Nashua Mfg. Co., Nashua, N. H.
Ac. September 13, 1906.

Whitaker, James D.
Agent, Lola Cotton Mills, 683 Atlantic Ave., Boston, Mass.
Ac. May 1, 1924.

Whitaker, James L.
William Whitaker & Sons, Olney, Philadelphia, Pa.
Ac. September 21, 1905.

Whitaker, Wharton
Vice-Pres. and Gen. Mgr., William H. Haskell Mfg. Co., Pawtucket, R. I.
(March 15, 1919.
(L. March 9, 1920.

White, Nelson D.
Gen. Mgr., N. D. White & Sons, Winchendon, Mass.
Ac. September 11, 1912.

Whitehead, H. R.
Agent, Pepperell Mfg. Co., Biddeford, Me.
Ac. July 10, 1925.

Whitin, Henry T.
Pres., Paul Whitin Mfg. Co., Northbridge, Mass.
Ac. April 25, 1877.

Whitin Machine Works
E. Kent Swift, Treas., Whitinsville, Mass.
As. Sus. November 1, 1918.

Whitin, Paul
Treas., Paul Whitin Mfg. Co., Northbridge, Mass.
Ac. October 1, 1903.

Whitin, Paul Mfg. Co.
Henry T. Whitin, Pres., and Paul Whitin, Treas., Northbridge, Mass.
Sus. April 1, 1931.

Whitin, Richard C.
Asst. Treas., Paul Whitin Mfg. Co., Northbridge, Mass.
Ac. January 11, 1926.

Whitman, Harold C.
Pres., The Esmond Mills, 21 East 26th St., New York City.
Ac. April 25, 1907.

Whitman, Hendricks H.
Pres., Mononac Spinning Co., 78 Chauncy St., Boston, Mass.
Ac. April 29, 1915.

Whitman, Malcolm D.
William Whitman Co., Inc., 261 Fifth Ave., New York City.
As. April 25, 1912.

Whitney, Benjamin P.
Pacific Mills, 140 Federal St., Boston, Mass.
Ac. October 25, 1928.

Whittaker, John G.
Mgr., Lincoln Bleachery & Dye Works, Lonsdale, R. I.
Ac. April 17, 1908.

Whittenton Mfg. Co.
John S. Farlow, Asst. Treas., 50 State St., Boston, Mass.
Sus. January 30, 1925.

Whittier, W. R. B.
Treas., Whittier Mills, Chattahoochee, Ga.
Ac. October 18, 1900.

Whitworth, Jesse
Manville Jenckes Co., Manville, R. I.
Ac. May 1, 1930.

Wikstrom, Olli
Boras Wafver Aktiebolag, Boras, Sweden.
Ac. January 25, 1929.

Wilkinson, William T.
Gen. Supt., Warwick Mills, W. Warwick, R. I.
Ac. April 16, 1926.

Williams, John R.
New York Mills Corp., New York Mills, N. Y.
Jr. Tech. September 13, 1929.

Williams, Walter S.
Mount Hope Finishing Co., North Dighton, Mass.
Ac. April 30, 1909.

Winchester, William E.
Vice-Pres., Deering, Milliken & Co., Inc., 79 Leonard St., New York City.
Ac. April 24, 1902.

Winterbottom, John W.
Supt., Nashua Mfg. Co., Nashua, N. H.
Ac. November 23, 1925.

Wonalancet Co.
James R. Everett, Vice Pres. and Gen. Mgr., 179 Summer St., Boston, Mass.
Sus. March 15, 1918.

Woolf, Douglas G.
Bragdon, Lord & Nagle Co., Tenth Ave. at 36th St., New York City.
As. June 15, 1931.

Worsnop, William
Agent, Cabot Mfg. Co., Brunswick, Me.
Ac. November 1, 1923.

Yong, Poh-Zung
Asst. Gen. Mgr., Sung Sing Cotton Mills, Shanghai, China.
Ac. January 5, 1931.

Yong, R-Zung
Agent, Sung Sing Cotton Mills, Wusih, Kiangsu,
China.
Ac. January 5, 1931.

Yong, Wei Zung
Sung-Sing Cotton Mills, Shanghai, China.
Ac. January 5, 1931.

Young, Alan V.
Mgr., Hamilton Cotton Co., Hamilton, Ontario,
Canada.
Ac. September 11, 1915.

Young, A. McLean
Treas., Queen City Cotton Co., Burlington, Vt.
S.R. April 24, 1918.

Young, Charles William
Supt., Goodyear Cotton Mills, Inc., Goodyear,
Conn.
Ac. October 5, 1923.

Zylstra, William C.
Supt., Booth Mfg. Co., New Bedford, Mass.
Ac. June 14, 1926.

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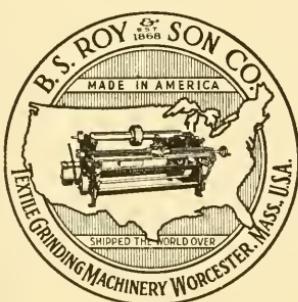
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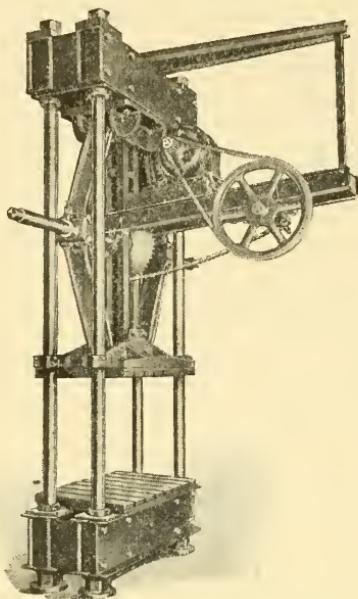
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